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Deaths: Preliminary Data for 2009

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Abstract

Objectives—This report presents preliminary U.S. data on deaths, death rates, life expectancy, leading causes of death, and infant mortality for 2009 by selected characteristics such as age, sex, race, and Hispanic origin.

Methods—Data in this report are based on death records comprising more than 96 percent of the demographic and medical files for all deaths in the United States in 2009. The records are weighted to independent control counts for 2009. Comparisons are made with 2008 preliminary data.

Results—The age-adjusted death rate decreased from 758.7 deaths per 100,000 population in 2008 to 741.0 deaths per 100,000 population in 2009. From 2008 to 2009 age-adjusted death rates decreased significantly for 10 of the 15 leading causes of death: Diseases of heart, Malignant neoplasms, Chronic lower respiratory diseases, Cerebrovascular diseases, Accidents (unintentional injuries), Alzheimer's disease, Diabetes mellitus, Influenza and pneumonia, Septicemia, and Assault (homicide). Life expectancy increased by 0.2 year from 78.0 years in 2008 to 78.2 in 2009.

Keywords: death rates, life expectancy, vital statistics, preliminary

Introduction

This report presents preliminary mortality data for the United States based on vital records for a substantial proportion of deaths occurring in 2009. Statistics in preliminary reports are generally considered reliable; past analyses reveal that most statistics shown in preliminary reports for 1995–2007 were confirmed by the final statistics for each of those years (1-13).

Data Sources and Methods

Preliminary data in this report are based on records of deaths that occurred in calendar year 2009, which were received from state vital statistics offices and processed by the Centers for Disease Control and Prevention's National Center for Health Statistics (NCHS) as of November 5, 2010. Estimates of the level of completeness of preliminary data for each state are shown in Table I (see "Technical Notes"). Detailed information on the nature, sources, and qualifications of the preliminary data are given in "Technical Notes." The preliminary data for 2009 for Georgia were incomplete, therefore additional review of the data was included to insure the 2009 estimates for the United States were accurate.

Each state vital statistics office reported to NCHS the number of deaths registered and processed for calendar year 2009. Those state counts were used as independent control counts for NCHS' 2009 preliminary national mortality file. A comparison of a) the number of 2009 death records received from the states for processing by NCHS with b) the state's independent control counts of the number of deaths in 2009 indicates that demographic information for the United States was available for an estimated 97 percent of infant deaths (under age 1 year) and 99 percent of deaths of persons aged 1 year and over occurring in calendar year 2009 (see Table I in "Technical Notes"). Medical (or cause-of-death) information was processed separately and available for an estimated 94 percent of infant deaths and 97 percent of deaths of persons aged 1 year and over in 2009.

To produce the preliminary estimates shown in this report, 2009 records were weighted using 2009 state-specific, independent control counts of infant deaths and deaths of those aged 1 year and over received in state vital statistics offices. Two separate sets of weights were applied to the death records—one set for demographic information and another for medical information. This results in inconsistencies between demographic data from the mortality demographic tables and the medical tables showing causes of death (see "Nature and sources of data" in "Technical Notes"). Preliminary estimates are subject to sampling variation as well as random variation.

Cause-of-death information is not always available when preliminary data are sent to NCHS, but is available later for final data processing. As a result, estimates of cause of death based on preliminary mortality data may differ from statistics developed from the final mortality data (see Tables II and III in "Technical Notes"). Such differences may affect certain causes of death where the cause is pending investigation, such as for Assault (homicide), Intentional self-harm (suicide), Accidents (unintentional injuries), Drug-induced deaths, and Sudden infant death syndrome (SIDS); see "Nonsampling error" in "Technical Notes."

This preliminary report includes national and state estimates of total deaths and death rates, as well as statistics on life expectancy, infant mortality, and causes of death. Data are shown for the following race and ethnic groups: white, non-Hispanic white, black, non-Hispanic black, American Indian or Alaska Native (AIAN), Asian or Pacific Islander (API), and Hispanic populations. Tabulations by race and ethnic

group are based on the race and ethnic group reported for the decedent. Race and Hispanic origin are reported as separate items on the death certificate. Death rates for AIAN, API, and, to a lesser extent, Hispanic populations are known to be too low because of reporting problems (see "Race and Hispanic origin" in "Technical Notes").

Changes in death rates from 2008 to 2009 were tested for statistical significance. Differences in death rates across demographic groups (but occurring in 2009 only) were also tested for statistical significance. Unless otherwise specified, reported differences in death rates are statistically significant.

Age-adjusted death rates are better indicators than crude death rates for showing changes in the risk of death over time when the age distribution of the population is changing, and for comparing the mortality of population subgroups that have different age compositions. All age-adjusted death rates are standardized to the year 2000 population (see "Computing rates and percentages" in "Technical Notes").

Two measures of infant mortality are shown: the infant death rate and the infant mortality rate (see "Infant mortality" in "Technical Notes"). These measures typically are similar, although they can differ because they have different denominators. The denominator of the 2009 infant death rate is the estimated population under age 1 year on the reference date of July 1, 2009 (14). This estimated population includes a combination of infants born in 2008 who had not reached their first birthday by July 1, 2009, and infants born in 2009 before July 1. In contrast, the denominator of the 2009 infant mortality rate is all live births occurring in 2009. The infant mortality rate is a better indicator of the risk of dying during the first year of life than the infant death rate.

This report includes data for 30 states and the District of Columbia—Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming—that had implemented the 2003 revision of the U.S. Standard Certificate of Death by 2009, and for the remaining 20 states that collected and reported death data in 2009 based on the 1989 revision of the U.S. Standard Certificate of Death. The 2003 revision is described in detail elsewhere (15, 16). In this report, revised data are combined with unrevised but comparable data. More details on procedures used to combine revised with unrevised data on race are given in "Technical Notes."

Because the 2000 U.S. Census allowed for selection of multiple races, death certificate data by race (i.e., the numerators for death rates) are not wholly compatible with the population data collected in this census. Data from the census are necessary to produce denominators for computing death rates.

Multiple-race data were collected in 2009 by the 30 states and the District of Columbia that used the 2003 revision of the U.S. Standard Certificate of Death in a manner that is consistent with the population data collected in the 2000 census. Four additional states — Hawaii, Maine, Minnesota and Wisconsin — that used the 1989 revision of the U.S. Standard Certificate of Death also reported multiple-race data. The remaining 16 states did not collect multiple-race data in 2009. In order to produce national death rates for 2008 and 2009 for this report, multiple-race data from death certificates were "bridged" to be consistent with the 1977 Office of Management and Budget (OMB) single-race categories (17); that is, the multiple-race categories were bridged back to single-race categories. Also, data for Asian persons and Native Hawaiians or Other Pacific Islanders (NHOPI) were reported as the combined category API (18). The populations used to calculate death rates are also bridged to single-race categories. These populations are produced under a collaborative arrangement with the U.S. Census Bureau and are based

on year 2000 census counts. The procedures used to produce the bridged populations are described in separate publications (19,20). As the remaining 16 reporting areas gradually begin to collect data on race according to the 1997 OMB standards (21), use of the bridged populations is expected to be discontinued.

Readers should keep in mind that the population data used to compile the death rates by race shown in this report are based on special estimation procedures. They are not true counts. The estimation procedures used to develop these populations are subject to error. Smaller population groups are affected much more than larger populations by this measurement error, especially the AIAN population (19).

Previous preliminary death reports have compared preliminary data from the current data year with final data from the previous year (1-13). Since the final data for 2008 are not yet available, all comparisons in this report are between the 2008 preliminary data (22) and the 2009 preliminary data.

Results

Trends in numbers and rates

The preliminary number of deaths in the United States for 2009 was 2,436,682 (Tables A and 1). The crude death rate of 793.7 per 100,000 population was 2.4 percent less than the rate of 813.3 per 100,000 in 2008. The estimated age-adjusted death rate, which accounts for changes in the age distribution of the population, reached a record low of 741.0 per 100,000 U.S. standard population, 2.3 percent lower than the 2008 rate of 758.7 (Tables A and 1) (22). Figure 1 illustrates the general pattern of decline in both crude and age-adjusted death rates from 1980 through 2009. The age-adjusted death rate decreased from 2008 to 2009 by 2.8 percent for females and 1.4 percent for males. The relative magnitudes of significant changes in age-adjusted death rates by sex, race, and Hispanic origin (Table 1) are:

White males (1.5 percent decrease)

White females (3.0 percent decrease)

Non-Hispanic white males (1.9 percent decrease)

Non-Hispanic white females (3.3 percent decrease)

Black females (1.5 percent decrease)

Non-Hispanic black females (1.7 percent decrease)

Hispanic males (2.6 percent decrease)

Hispanic females (3.3 percent decrease)

Among the major race and Hispanic origin groups, the lowest mortality was reported for the API, Hispanic, and AIAN populations. Compared with the non-Hispanic white population, preliminary ageadjusted death rates were 44.5 percent lower for the API population, 30.3 percent lower for the Hispanic population, and 19.0 percent lower for the AIAN population. In contrast, the age-adjusted death rate for the non-Hispanic black population was 26.6 percent higher than that for the non-Hispanic

white population (Table 1). It is important to keep in mind, however, that mortality for races other than white and black may be seriously understated in some cases due to underreporting for some race groups and Hispanic origin on death certificates (23-25).

Statistically significant decreases in mortality from 2008 to 2009 were registered for those under 1 year, 1-4 years, 15-24 years and across age groups ranging 55 – 84 years of age. Other age groups did not experience significant change. The magnitude of the significant changes in mortality by age group is (Table 1):

Under 1 year	(4.2 percent decrease)
1-4 years	(7.7 percent decrease)
15-24 years	(6.7 percent decrease)
55-64 years	(0.9 percent decrease)
65-74 years	(3.4 percent decrease)
75-84 years	(4.9 percent decrease)

The death rate for "under 1 year" shown above is based on a population estimate and is different from the infant mortality rate, which is based on live births (see "Infant mortality").

Preliminary life expectancy data shown in this report for the 2008 data year have been updated and may differ from those previously published (see "Life Tables" in "Technical Notes"). Life expectancy data shown in this report for data years 2008–2009 are based on methodology that was revised in 2000. The revised methodology is similar to that developed for the 1999–2001 decennial life tables; see "Technical Notes." The preliminary estimate of life expectancy at birth for the total population in 2009 is 78.2 years. This represents an increase in life expectancy of 0.2 year relative to 2008 (see Tables A and 6). Life expectancy for males increased 0.2 year, from 75.5 in 2008 to 75.7 in 2009. Female life expectancy increased from 80.5 years to 80.6 years. The difference between male and female life expectancy at birth has been generally decreasing since its peak of 7.8 years in 1979 (26). The gap between male and female life expectancy was 4.9 years in 2009. The difference in life expectancy between the white and black populations in 2009 was 4.3 years, a 0.2 year increase from the 2008 gap between the two races (22).

White females have the highest life expectancy (Figure 2), followed by, in order, black females, white males, and black males. Figure 2 also shows that this pattern has not changed from 1975 through 2009, even though life expectancy for all groups has generally increased over this time period.

By state of residence, Hawaii had the lowest mortality in 2009 with an age-adjusted death rate of 619.8 deaths per 100,000 standard population (Table 3). Mortality was highest in West Virginia, with an age-adjusted death rate of 949.6 per 100,000 standard population.

Causes of death

The 15 leading causes of death in 2009 remained the same as in 2008, with the exception of two causes that exchanged ranks. Intentional self-harm (suicide), the eleventh leading cause of death in 2008, became the tenth leading cause of death in 2009, whereas Septicemia, the tenth leading cause in 2008, became the eleventh leading cause of death in 2009.

The 15 leading causes of death in 2009 (Table B) were as follows:

- 1 Diseases of heart
- 2 Malignant neoplasms
- 3 Chronic lower respiratory diseases
- 4 Cerebrovascular diseases
- 5 Accidents (unintentional injuries)
- 6 Alzheimer's disease
- 7 Diabetes mellitus
- 8 Influenza and pneumonia
- 9 Nephritis, nephrotic syndrome and nephrosis
- 10 Intentional self-harm (suicide)
- 11 Septicemia
- 12 Chronic liver disease and cirrhosis
- 13 Essential hypertension and hypertensive renal disease
- 14 Parkinson's disease
- 15 Assault (homicide)

From 2008 to 2009 the age-adjusted death rate declined significantly for 10 of the 15 leading causes of death. The preliminary age-adjusted death rate for the leading cause of death, Diseases of heart, decreased by 3.7 percent. The age-adjusted death rate for Malignant neoplasms decreased by 1.1 percent (see Tables B and 2). Deaths from these two diseases combined accounted for 48 percent of deaths in the United States in 2009. Although heart disease mortality has exhibited a downward trend since 1950, cancer mortality began to decline only in the early 1990s (10,22). The preliminary age-adjusted death rate also decreased significantly for Chronic lower respiratory diseases (4.1 percent) and Cerebrovascular diseases (4.2 percent).

Other leading causes of death that showed significant decreases in 2009 relative to 2008 were: Accidents (unintentional injuries) (4.1 percent), Alzheimer's disease (4.1 percent), Diabetes mellitus (4.1 percent), Influenza and pneumonia (4.7 percent), Septicemia (1.8 percent), and Assault (homicide) (6.8 percent).

The observed increase in the age-adjusted death rate for Intentional self-harm (suicide) was not significant. The age-adjusted death rates for Nephritis, nephrotic syndrome and nephrosis, Chronic liver disease and cirrhosis, Essential hypertension and hypertensive renal disease, and Parkinson's disease remained unchanged from 2008 to 2009.

Human immunodeficiency virus (HIV) disease was not among the 15 leading causes of death in 2009. The preliminary age-adjusted death rate for HIV disease declined by 9.1 percent from 2008 to 2009

(Table 2). Following a period of increase from 1987 through 1994, HIV disease mortality reached a plateau in 1995. Subsequently, the rate for this disease decreased an average of 33.0 percent per year from 1995 through 1998 (27), and 5.1 percent per year from 1999 through 2008 (22). For all races combined in the age group 15–24 years, HIV disease was the 12th leading cause of death in 2009, decreasing by two positions relative to its rank as 10th leading cause for 15–24 year-olds in 2008. HIV disease remained the 6th leading cause of death for the age group 25–44 years, unchanged in rank from 2008. Among decedents aged 45–64 years, HIV disease dropped from 12th leading cause in 2008 to 13th leading cause.

Enterocolitis due to *Clostridium difficile* (*C. difficile*), a predominantly antibiotic-associated inflammation of the intestines caused by *C. difficile*, a gram-positive, anaerobic, spore-forming bacillus, is of growing concern. The disease is often acquired by long-term patients or residents in hospitals or other health-care facilities and accounted for an increasing number of deaths between 1999 and 2008 (28,29). In 1999, 793 deaths were due to *C. difficile*, compared with 7,483 *C. difficile* deaths in 2008 (22). In 2009 the number of deaths decreased to 7,285. The age-adjusted death rate for this cause decreased from 2.3 deaths per 100,000 standard population in 2008 to 2.2 deaths per 100,000 standard population in 2009 (4.3 percent). In 2009, *C. difficile* ranked as the 19th leading cause of death for the population aged 65 years and older. Approximately 92 percent of deaths from *C. difficile* occurred to people 65 years and older (data not shown).

The preliminary age-adjusted death rate for drug-induced deaths declined by 1.6 percent from 12.3 in 2008 to 12.1 in 2009. However, the final number of drug-induced deaths in 2008 or 2009 may be substantially higher because information on cause of death in these cases is often delayed pending investigation. Additional information based on toxicology or autopsy reports is often not available in the preliminary file. The age-adjusted death rate for injury at work declined 10.5 percent from 1.9 to 1.7. The observed decrease in the age-adjusted death rate for alcohol-induced deaths (1.4 percent) was not significant. Mortality from firearm injuries (Table 2) decreased by 2.9 percent.

Infant mortality

The preliminary infant mortality rate for 2009 was 6.42 infant deaths per 1,000 live births (see Tables A and 4). This represents a decrease of 2.6 percent from the preliminary 2008 rate of 6.59. With the exception of 2002 and 2005, the infant mortality rate has statistically remained the same or decreased significantly each successive year from 1958 through 2009 (22,30). The neonatal (i.e. infants aged less than 28 days) mortality rate decreased 1.9 percent from 4.27 per 1,000 live births in 2008 to 4.19 per 1,000 live births in 2009, but the decrease was not significant. The postneonatal (i.e. infants aged 28 days – 11 months) mortality rate decreased by 3.4 percent between 2008 and 2009.

The 2009 preliminary infant mortality rate for black infants was 12.71 infant deaths per 1,000 live births, compared with 12.68 per 1,000 live births in 2008, but the observed increase was not significant.

The infant mortality rate for white infants decreased in 2009 by 4.0 percent, from 5.54 infant deaths per 1,000 live births in 2008 to 5.32 in 2009. The mortality rate for black infants was 2.4 times the rate for white infants (See Tables A and 4). Because of inconsistencies in the reporting of race groups on birth and death certificates (especially for races other than white and black and for Hispanic origin), infant mortality rates for these groups are likely to be underestimated (25). The linked birth/infant death data set provides a better source of data for infant deaths and mortality rates by maternal race and ethnicity (31).

Although the infant mortality rate is the preferred indicator of the risk of dying during the first year of life, the infant death rate is also shown in this report. While similar, these two rates vary based on differences in their denominators. The denominator of the 2009 infant death rate is the estimated population under 1 year of age as of the reference date, July 1, 2009 (14). This population estimate includes a combination of infants born in 2008 who had not reached their first birthday before July 1, 2009, and infants born in 2009 before July 1, 2009. In contrast, the denominator of the 2009 infant mortality rate is all live births occurring during 2009 (32). For example, the preliminary number of live births for 2009 (n = 4,131,019) is 3.1 percent lower than the midyear infant population in 2009 (n = 4,261,494). Therefore, the infant mortality rate for 2009 (642.1 deaths per 100,000 live births) is higher than the infant death rate for 2009 (622.6 deaths per 100,000 population). For 2009, both the infant mortality rate and the infant death rate decreased significantly from 2008.

The 10 leading causes of infant mortality for 2009 were:

- 1 Congenital malformations, deformations and chromosomal abnormalities
- 2 Disorders related to short gestation and low birth weight, not elsewhere classified
- 3 Sudden infant death syndrome
- 4 Newborn affected by maternal complications of pregnancy
- 5 Accidents (unintentional injuries)
- 6 Newborn affected by complications of placenta, cord and membranes
- 7 Bacterial sepsis of newborn
- 8 Respiratory distress of newborn
- 9 Diseases of the circulatory system
- 10 Neonatal hemorrhage

There were no differences in ranking among the leading causes of infant death between 2008 (22) and 2009 (Table 8).

The infant mortality rate decreased for 2 of 10 leading causes of death from 2008 to 2009 (Tables 5 and 8). The infant mortality rate for Newborn affected by maternal complications of pregnancy —the fourth leading cause of death—decreased by 7.5 percent (Tables 5 and 8). The infant mortality rate for Accidents (unintentional injuries) —the fifth leading cause of death—decreased by 8.5 percent.

Deaths due to SIDS, currently the third leading cause of infant death, have been declining since 1988 (4,22). The observed decrease in SIDS from 53.9 to 52.5 is not statistically significant. Because SIDS deaths often involve lengthy investigations, the mortality rate due to SIDS is typically lower based on preliminary data than that based on the final data. Recent declines in mortality due to SIDS also may reflect primarily a change in the way SIDS is diagnosed and reported by medical examiners and coroners (33).

References

- 1. Anderson RN, Kochanek KD, Murphy SL. Report of final mortality statistics, 1995. Monthly vital statistics report; vol 45 no 11 supp 2. Hyattsville, MD: National Center for Health Statistics. 1997. Available from: http://www.cdc.gov/nchs/data/mvsr/supp/mv45 11s2.pdf.
- 2. Peters KD, Kochanek KD, Murphy SL. Deaths: Final data for 1996. National vital statistics reports; vol 47 no 9. Hyattsville, MD: National Center for Health Statistics. 1998. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47 09.pdf.
- 3. Hoyert DL, Kochanek KD, Murphy SL. Deaths: Final data for 1997. National vital statistics reports; vol 47 no 19. Hyattsville, MD: National Center for Health Statistics. 1999. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47 19.pdf.
- Murphy SL. Deaths: Final data for 1998. National vital statistics reports; vol 48 no 11. Hyattsville,
 MD: National Center for Health Statistics. 2000. Available from:
 http://www.cdc.gov/nchs/data/nvsr/nvsr48/nvs48 11.pdf.
- 5. Hoyert DL, Arias E, Smith BL, Murphy SL, Kochanek KD. Deaths: Final data for 1999. National vital statistics reports; vol 49 no 8. Hyattsville, MD: National Center for Health Statistics. 2001. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49 08.pdf.
- 6. Miniño AM, Arias E, Kochanek KD, Murphy SL, Smith BL. Deaths: Final data for 2000. National vital statistics reports; vol 50 no 15. Hyattsville, MD: National Center for Health Statistics. 2002. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr50/nvsr50 15.pdf.
- 7. Arias E, Anderson RN, Kung HC, Murphy SL, Kochanek KD. Deaths: Final data for 2001. National vital statistics reports; vol 52 no 3. Hyattsville, MD: National Center for Health Statistics. 2003. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr52/nvsr52 03.pdf.
- 8. Kochanek KD, Murphy SL, Anderson RN, Scott C. Deaths: Final data for 2002. National vital statistics reports; vol 53 no 5. Hyattsville, MD: National Center for Health Statistics. 2004. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr53/nvsr53 05.pdf.
- 9. Hoyert DL, Heron MP, Murphy SL, Kung HC. Deaths: Final data for 2003. National vital statistics reports; vol 54 no 13. Hyattsville, MD: National Center for Health Statistics. 2006. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr54/nvsr54 13.pdf.
- 10. Miniño AM, Heron MP, Murphy SL, Kochanek KD. Deaths: Final data for 2004. National vital statistics reports; vol 55 no 19. Hyattsville, MD: National Center for Health Statistics. 2007. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr55/nvsr55 19.pdf.
- 11. Kung HC, Hoyert DL, Xu J, Murphy SL. Deaths: Final data for 2005. National vital statistics reports; vol 56 no 10. Hyattsville, MD: National Center for Health Statistics. 2008. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr56/nvsr56 10.pdf.
- 12. Heron MP, Hoyert DL, Murphy SL, Xu JQ, Kochanek KD, Tejada-Vera B. Deaths: Final data for 2006. National vital statistics reports; vol 57 no 14. Hyattsville, MD: National Center for Health Statistics. 2009. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57 14.pdf.

- 13. Xu J, Kochanek KD, Murphy SL, Tejada-Vera B. Deaths: Final data for 2007. National vital statistics reports; vol 58 no 19. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58 19.pdf.
- 14. National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2000 July 1, 2009, by year, county, age, bridged-race, Hispanic origin, and sex (Vintage 2009) (pcen_v2009_y09.txt). Prepared under a collaborative agreement with the U.S. Census Bureau. 2010. Available from:

 http://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm#vintage2009.
- 15. National Center for Health Statistics. 2003 revision of the U.S. Standard Certificate of Death. 2003. Available from: http://www.cdc.gov/nchs/data/dvs/DEATH11-03final-acc.pdf.
- 16. National Center for Health Statistics. Report of the panel to evaluate the U.S. standard certificates. 2000. Available from: http://www.cdc.gov/nchs/data/dvs/panelreport_acc.pdf.
- 17. Office of Management and Budget. Race and ethnic standards for federal statistics and administrative reporting. Statistical Policy Directive 15. 1977.
- 18. U.S. Census Bureau. Age, sex, race and Hispanic origin information from the 1990 census: A comparison of census results with results where age and race have been modified, 1990. CPH-L-74. Washington, DC: U.S. Department of Commerce. 1991.
- 19. Ingram DD, Parker JD, Schenker N, Weed JA, et al. United States census 2000 population with bridged race categories. National Center for Health Statistics. Vital Health Stat 2(135). 2003. Available from: http://www.cdc.gov/nchs/data/series/sr 02/sr02 135.pdf
- 20. Schenker N, Parker JD. From single-race reporting to multiple-race reporting: Using imputation methods to bridge the transition. Stat Med 22, 1571–87. 2003.
- 21. Office of Management and Budget. Revisions to the standards for the classification of federal data on race and ethnicity. Federal Register Notice (62 FR58782–58790). October 30, 1997.
- 22. Miniño AM, Xu JQ, Kochanek KD. Deaths: Preliminary Data for 2008. National Vital Statistics Reports; vol 59 no 2. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59 02.pdf
- 23. Sorlie PD, Rogot E, Johnson NJ. Validity of demographic characteristics on the death certificate. Epidemiology 3(2): 181–4. 1992.
- 24. Rosenberg HM, Maurer JD, Sorlie PD, Johnson NJ, et al. Quality of death rates by race and Hispanic origin: A summary of current research, 1999. National Center for Health Statistics. Vital Health Stat 2(128). 1999. Available from:

 http://www.cdc.gov/nchs/data/series/sr-02/sr02-128.pdf
- 25. Arias E, Schauman WS, Eschbach K, Sorlie PD, et al. The validity of race and Hispanic origin reporting on death certificates in the United States. National Center for Health Statistics. Vital Health Stat 2(148):1–23. 2008. Available from:

 http://www.cdc.gov/nchs/data/series/sr 02/sr02 148.pdf.

- 26. Arias E. United States life tables, 2006. National vital statistics reports; vol 58 no 21. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58 21.pdf.
- 27. National Center for Health Statistics. Hist293. Age-adjusted death rates for 72 selected causes by race and sex using year 2000 standard population: United States, 1979-98 [online]. 2001. Available from: http://www.cdc.gov/nchs/data/mortab/aadr7998s.pdf.
- 28. Suneshine RH, McDonald LC. Clostridium difficile-associated disease: New challenges from an established pathogen. Cleve Clin J Med 73(2):187–97. 2006. Available from: http://www.cdc.gov/ncidod/dhqp/pdf/infDis/Cdiff CCJM02 06.pdf.
- 29. Redelings MD, Sorvillo F, Mascola L. Increase in Clostridium difficile related mortality rates, United States, 1999–2004. Emerging Infectious Diseases [online series] 13(9):1417–19. 2007. Available from: http://www.cdc.gov/EID/content/13/9/1417.htm.
- 30. Kochanek KD, Martin JA. Supplemental analyses of recent trends in infant mortality. Health Estats. Hyattsville, MD: National Center for Health Statistics. Available from: http://www.cdc.gov/nchs/products/pubs/pubd/hestats/infantmort/infantmort.htm.
- 31. Mathews T, MacDorman M. Infant mortality statistics from the 2006 period linked birth/infant death data set. National vital statistics reports; vol 58 no 17. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58_17.pdf.
- 32. Hamilton BE, Martin JA, Ventura SJ. Births: Preliminary data for 2009. National vital statistics reports; vol 59 no 3. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr59/nvsr59 03.pdf.
- 33. Shapiro-Mendoza C, Tomashek K, Anderson R, Wingo J. Recent national trends in sudden, unexpected infant deaths: More evidence supporting a change in classification or reporting. Am J Epidemiol 163(8):762–9. 2006.
- 34. National Center for Health Statistics. Technical appendix. Vital statistics of the United States: Mortality, 1999. Available from: http://www.cdc.gov/nchs/datawh/statab/pubd/ta.htm.
- 35. National Center for Health Statistics. Vital statistics, instructions for classifying the underlying cause of death. NCHS instruction manual, part 2a. Hyattsville, MD: Public Health Service. Published annually.
- 36. World Health Organization. International Statistical Classification of Diseases and Related Health Problems, Tenth Revision. Geneva: World Health Organization. 1992.
- World Health Organization. International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Second Edition. Geneva: World Health Organization. 2004.
- 38. World Health Organization. Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death, Ninth Revision. Geneva: World Health Organization. 1977.
- 39. Anderson RN, Miniño AM, Hoyert DL, Rosenberg HM. Comparability of cause of death between ICD–9 and ICD–10: Preliminary estimates. National vital statistics reports; vol 49 no 2.

- Hyattsville, MD: National Center for Health Statistics. 2001. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr49/nvsr49 02.pdf.
- 40. National Center for Health Statistics. ICD–10 Cause-of-death lists for tabulating mortality statistics, updated March 2009. NCHS instruction manual, part 9. Hyattsville, MD: Public Health Service. 2009. Available from: http://www.cdc.gov/nchs/nvss/instruction_manuals.htm.
- 41. Centers for Disease Control and Prevention. Use of Influenza A (H1N1) 2009 Monovalent Vaccine: Recommendations of the Advisory Committee on Immunization Practices (ACIP), 2009. MMWR; 58(RR10): 1-8. Washington, DC: Public Health Service. 2009.
- 42. Heron, M. Deaths: Leading causes for 2006. National vital statistics reports; vol 58 no 14. Hyattsville, MD: National Center for Health Statistics. 2007. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58 14.pdf.
- 43. Sirken M. Comparison of two methods of constructing abridged life tables by reference to a "standard" table. National Center for Health Statistics. Vital Health Stat 2 (4): 1966. Available from: www.cdc.gov/nchs/data/series/sr 02/sr02 004.pdf.
- 44. Anderson RN. Method for constructing complete annual U.S. life tables. National Center for Health Statistics. Vital Health Stat 2 (129). 1999. Available from: www.cdc.gov//nchs/data/series/sr 02/sr02 129.pdf.
- 45. National Center for Health Statistics. U.S. decennial life tables for 1989-91, vol 1 no 2, methodology of the national and state life tables. Hyattsville, MD. 1998. Available from: www.cdc.gov/nchs/data/lifetables/life89 1 2.pdf.
- 46. Kestenbaum B. A description of the extreme aged population based on improved Medicare enrollment data. Demography 29: 565-80. 1992.
- 47. Wei R, Curtin LR, Arias E, Anderson RN. U.S decennial life tables for 1999–2001, Methodology of the United States life tables. National vital statistics reports; vol 57, no 4. Hyattsville, MD: National Center for Health Statistics. 2008. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr57/nvsr57 04.pdf.
- 48. Arias E, Rostron BL, Tejada-Vera B. United States Life Tables, 2005. National Vital Statistics Reports; vol 58 no 10. Hyattsville, MD: National Center for Health Statistics. 2010. Available from: http://www.cdc.gov/nchs/data/nvsr/nvsr58/nvsr58 10.pdf.
- 49. National Center for Health Statistics. Postcensal estimates of the resident population of the United States for July 1, 2000-July 1, 2008, by year, county, age, bridged-race, Hispanic origin, and sex (Vintage 2008) (pcen_v2008_y0508.txt). Prepared under a collaborative agreement with the U.S. Census Bureau. 2009. Available from:

 http://www.cdc.gov/nchs/nvss/bridged_race/data_documentation.htm.
- 50. Anderson RN, Rosenberg HM. Age standardization of death rates: Implementation of the year 2000 standard. National Vital Statistics Reports; vol 47 no 3. Hyattsville, MD: National Center for Health Statistics. 1998. Available from: www.cdc.gov/nchs/data/nvsr/nvsr47/nvs47 03.pdf.

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Technical Notes

Nature and sources of data

Preliminary mortality data for 2009 are based on a continuous receipt and processing of statistical records by the National Center for Health Statistics (NCHS) through November 5, 2010. NCHS received the data from the states' vital registration systems through the Vital Statistics Cooperative Program. Demographic information for the U.S. was available in calendar year 2009 for an estimated 97.4 percent of infant decedents and 98.5 percent of decedents aged 1 year and over. Medical information for the U.S. was available in calendar year 2009 for an estimated 94.3 percent of infant decedents and 96.5 percent of decedents aged 1 year and over. In this report, U.S. totals include only events occurring within the 50 states and the District of Columbia. Data for Puerto Rico, the Virgin Islands, Guam, American Samoa, and the Northern Marianas included in tables showing data by state are not included in U.S. totals. Information on reporting for the 2008 preliminary data are available elsewhere (22).

For 2009, individual records of infant deaths (deaths under 1 year of age) and deaths of persons 1 year and over are weighted (when necessary) to independent counts of deaths occurring in each state. These state-specific counts serve as control totals and are the basis for the record weights in the preliminary file. If the number of records in the preliminary file is greater than the count received from the state, the state-specific number of records in the preliminary file is used instead and the weight is set at 1.0.

For this report, two separate files are processed. The medical file, or cause of death file, contains records that include both demographic and medical information used to generate tables showing cause of death. The demographic file, which includes records from the medical file as well as additional records containing demographic information only, is used to generate tables showing mortality by demographic characteristics only. A state-specific weight is computed for each file by dividing the state control total by the number of records in the preliminary sample.

Each record is assigned two weights, a state-specific weight and a U.S. weight. State weights are used for state-specific tabulations and U.S. weights are used for national tabulations. For the medical file, the state weight makes the death counts comparable with those in the demographic file. The U.S. weight combines two factors: one to make the medical file counts for the individual record's state comparable with those for the demographic file, and one to compensate for any states not represented in the file. This second factor is equivalent to 0 if all states are represented in the file. Thus, when all states are represented in the preliminary files, the state and U.S. weights are the same.

Because there are two separate files, each with two separate sets of weights, slight inconsistencies may occur between the demographic and medical tables in this report. Table I shows the percent completeness of the preliminary files by place of occurrence for the United States and each state. The percent completeness is obtained by dividing the number of records in the preliminary files by the control total and multiplying by 100. Although data by place of occurrence are used to compute the weights, all data in this report are tabulated by place of residence. Based on a criterion of at least 75 percent completeness of a state's demographic file for the 12-month period as a basis for providing state-specific estimates, the demographic mortality files for 2009 contained less than 71.1 percent of their records for Georgia (Table I); therefore, data for Georgia are included in the U.S. total but are not shown separately in Table 3, which shows deaths and death rates by state. Since the preliminary data for 2009 for Georgia were incomplete, additional review of the data was included to insure the 2009 estimates for the United States were accurate.

For selected variables in the mortality files, unknown or not stated values are imputed. The percentage not stated was less than 1.8 percent for all variables discussed in this report. Detailed information on reporting completeness and imputation procedures may be found in "Technical Appendix, Vital Statistics of the United States: Mortality, 1999" (34).

2003 revision of U.S. Standard Certificate of Death

Between 2008 and 2009 there were no changes in the number of states implementing the 2003 revision of the U.S. Standard Certificate of Death. In this report the 30 states and the District of Columbia that implemented the 2003 revision are as follows: Arkansas, California, Connecticut, Delaware, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York (including New York City), North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming. (Vermont implemented the 2003 revision of the U.S. Standard Certificate of Death in July of 2008, so a portion of their data for 2008 is based on the 1989 revision of the certificate.) The remaining 20 states collected and reported death data in 2009 based on the 1989 revision of the U.S. Standard Certificate of Death. The 2003 revision is described in detail elsewhere (15,16). Since the items presented in this report appear largely comparable despite changes to item wording and format in the 2003 revision, data from both groups of states are combined.

Race and Hispanic origin

The 2003 revision of the U.S. Standard Certificate of Death allows the reporting of more than one race (multiple races) (15). This change was implemented to reflect the increasing diversity of the population of the United States, to be consistent with the decennial census, and to reflect standards issued in 1997 by the Office of Management and Budget. OMB standards mandate the collection of more than one race for federal data (see "Population denominators") (21). In addition, the new certificate is compliant with the OMB-mandated minimum set of five races to be reported for federal data. These are white, black or African American, American Indian or Alaska Native (AIAN), Asian, and Native Hawaiian or Other Pacific Islander (NHOPI).

For 2009 mortality data, multiple races were reported on the revised death certificates of Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Idaho, Illinois, Indiana, Kansas, Michigan, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York (including New York City), North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, and Wyoming. Multiple races were also reported on the unrevised certificates of Hawaii, Maine, Minnesota, and Wisconsin. Data from the vital records of the remaining 16 states are based on the 1989 revision of the U.S. Standard Certificate of Death, which follows the 1977 OMB standards, allowing only a single race to be reported (16,17). In addition, these 16 states report a minimum set of four races as stipulated in the 1977 standards. These are white, black or African American, American Indian or Alaska Native (AIAN), and Asian or Pacific Islander (API).

In order to provide uniformity and comparability of data during the transition period, before all or most of the data becomes available in the new multiple race format, it is necessary to adjust the data for those states reporting multiple race by "bridging" the multiple-race information reported for decedents to a single race. The bridging procedure used for mortality numerators is similar to the procedure used to bridge multiracial population estimates (see "Population denominators") (19,20). Multiracial decedents are imputed to a single race (either white, black, AIAN, or API) according to the combination of races, Hispanic origin, sex, and age indicated on the death certificate. The imputation procedure is described in detail at http://www.cdc.gov/nchs/data/dvs/Multiple race docu 5-10-04.pdf.

Since race and Hispanic origin are reported separately on the death certificate, data shown by race include persons of Hispanic or non-Hispanic origin, and data for Hispanic origin include persons of any race. In this report, unless otherwise specified, deaths of persons of Hispanic origin are included in the totals for each race group -- white, black, AIAN, and API -- according to the decedent's race as reported on the death certificate. Data shown for Hispanic persons include all persons of Hispanic origin of any race. Mortality data on the Hispanic origin population are based on deaths in all states. Death rates for Hispanic, AIAN, and API persons should be interpreted with caution because of inconsistencies in reporting race on death certificates compared with such reporting on censuses, surveys, and birth certificates. Studies have shown under-reporting on death certificates of AIAN, API, and Hispanic decedents, as well as undercounts of these groups in censuses (23-25).

Injury at work

Information on deaths attributed to injuries at work is derived from a separate item on the death certificate that asks the medical certifier whether the death resulted from an injury sustained at work. The item is on the death certificate of all states. Number of deaths, crude death rates, and age-adjusted death rates for injury at work for those aged 15 years and over, excluding age not stated, are shown in Table 2. Age-adjusted death rates presented in this report for injury at work were computed using age-specific death rates and the U.S. standard population based on year 2000 standard for ages 15 years and over, excluding age not stated (Table V). If the estimated "employed" population aged 15 years and over had been used instead in the denominator, higher death rates would have resulted, especially for population groups with lower employment rates. See "Computing rates and percentages."

Cause-of-death classification

Mortality statistics are compiled in accordance with World Health Organization regulations specifying that member nations classify and code causes of death in accordance with the current revision of the International Statistical Classification of Diseases, and Related Health Problems (ICD). The ICD provides the basic guidance used in virtually all countries to code and classify causes of death. It provides not only disease, injury, and poisoning categories but also the rules used to select the single underlying cause of death for tabulation from the several diagnoses that may be reported on a single death certificate, as well as definitions, tabulation lists, the format of the death certificate, and regulations on the use of the classification. Causes of death for data presented in this report were coded according to ICD guidelines which are described in annual issues of part 2a of the NCHS Instruction Manual (35).

Effective with deaths occurring in 1999, the United States began using the Tenth Revision of the ICD, (ICD-10) (36). In 2004, the Second Edition of ICD-10 was adopted (37). During 1979-1998, causes of death were coded and classified according to the Ninth Revision (ICD-9) (38). The change from ICD-9 to ICD-10 resulted in discontinuities for selected cause-of-death trends. These discontinuities are measured using comparability ratios derived from a comparability study (39).

Beginning with data for 2001, NCHS introduced categories *U01-*U03 for classifying and coding deaths due to acts of terrorism. The asterisks before the category codes indicate that they are not part of ICD-10. Deaths classified to the terrorism categories are included in the categories Assault (homicide) and Intentional self-harm (suicide) for the 113 causes-of-death list (Table 2) and Assault (homicide) in the 130 causes-of-infant death list (Table 5). Additional information on the new terrorism categories can be found at http://www.cdc.gov/nchs/icd/terrorism_code.htm. No deaths occurring in 2008 and 2009 were classified to the terrorism categories.

Enterocolitis due to *Clostridium difficile* (*C. difficile*)— Due to growing concerns about the number of deaths from Enterocolitis due to *Clostridium difficile* (ICD-10 code A04.7), beginning in 2006, *C. difficile* deaths are included separately as a rankable cause of death in tables showing data for 113 selected causes of death (Table 2). The number of deaths due to this cause decreased by 2.6 percent from 7,483 in 2008 to 7,285 in 2009. The age-adjusted death rate for this cause decreased significantly (by 4.3 percent) from 2.3 per 100,000 standard population in 2008 to 2.2 in 2009.

Codes for drug-induced deaths—The list of codes included in drug-induced causes was expanded in data year 2003 to be more comprehensive. The following 37 ICD-10 codes were added to the previous list of drug-induced codes: D52.1, D59.0, D59.2, D61.1, D64.2, E06.4, E16.0, E23.1, E24.2, E27.3, E66.1, G21.1, G24.0, G25.1, G25.4, G25.6, G44.4, G62.0, G72.0, I95.2, J70.2, J70.3, J70.4, L10.5, L27.0, L27.1, M10.2, M32.0, M80.4, M81.4, M83.5, M87.1, R78.1, R78.2, R78.3, R78.4, and R78.5. In addition to expansion of the list in 2003, ICD codes K85.3 (Drug-induced acute pancreatitis) and R50.2 (Drug-induced fever) were added to the list of drug-induced codes in 2006. Two deaths were assigned to K85.3 in 2008; no deaths were classified to these two new codes in 2009.

Codes for alcohol-induced deaths—The list of codes included in alcohol-induced causes was expanded in data year 2003 to be more comprehensive. Three ICD--10 codes were added to the previous list of alcohol-induced codes: E24.4, G72.1, and K86.0. Additionally, K85.2 (Alcohol-induced acute pancreatitis) was added to the list in 2006. In 2008, 405 deaths were classified to K85.2; in 2009, 400 deaths were classified to K85.2.

Recently added codes – Beginning with data for 2009, NCHS added five (5) new World Health Organization ICD-10 codes: A09.0, Other and unspecified gastroenteritis and colitis of infectious origin; A09.9, Gastroenteritis and colitis of unspecified origin; K52.3, Indeterminate colitis; R26.3, Immobility; and R63.6, Insufficient intake of food and water due to self neglect. Deaths classified to codes A09.0 and A09.9 are included in the category Certain other intestinal infections in the list of 113 selected causes of death (Table 2) and in the category Diarrhea and gastroenteritis of infectious origin in the list of 130 selected causes of infant death (Table 5). Deaths classified to the code K52.3 are included in the Residual category of the list of 113 selected causes of death and in the category Gastritis, duodenitis, and noninfective enteritis and colitis in the list of 130 selected causes of infant death. Deaths classified to codes R26.3 and R63.6 are included in the category Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified in both the 113 and 130 cause lists. Additional information on these new categories can be found at

http://www.cdc.gov/nchs/data/dvs/Part9InstructionManual2009.pdf (39).

In 2009 the ICD-10 code A09 was expanded from a 3-digit code to two four digit codes (A09.0 and A09.9). This expansion allowed for greater specificity and the result was an increase in the number of deaths classified to A09. This directly affected the category Certain other intestinal infections in the list of 113 selected causes of death in Table 2 (7,883 deaths in 2008 to 10,242 deaths in 2009) and the category Diarrhea and gastroenteritis of infectious origin in the list of 130 selected causes of infant death in Table 5 (0 deaths in 2008 to 328 deaths in 2009). The effect of this change will be examined with final data.

In 2009 the title for the ICD-10 code J09 was changed from Influenza due to identified avian influenza virus to Influenza due to certain identified influenza virus. The reason for this change was to accommodate deaths from influenza A (H1N1) virus in the ICD-10 code J09 for the 2009 data year. In April 2009, the new influenza A (H1N1) virus was determined to be a cause of influenza illness in the United States (41). In 2009, 1,486 deaths were classified to ICD-10 code J09.

Non-sampling error

Causes of death in this report are subject to non-sampling error. This is because the preliminary file is processed before a full year's worth of data is available. The file is thus subject to the seasonality of certain causes of death that may not be equally distributed throughout the year. It is known, for example, that external causes such as unintentional injuries occur disproportionately during the summer months, and that fatal respiratory conditions are more prevalent during the winter months. Accordingly, the truncated nature of the preliminary file may systematically overemphasize or underemphasize causes with pronounced seasonality, particularly when these deaths cluster at the end of the year. However, in years where the preliminary file completeness is more than 90 percent, it is unlikely that seasonality is a major factor.

Furthermore, for some deaths, especially those subject to medico-legal investigation such as unintentional injuries, homicides, suicides, and sudden infant death syndrome (SIDS), the final cause may not be available at the time the preliminary file is processed. In those cases, the causes of death may be reported in the preliminary file as unknown or pending investigation and coded to the category Other ill-defined and unspecified causes of mortality (ICD-10 code R99), a subcategory of Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (ICD-10 codes R00-R99). In the final data, some of the deaths of unknown cause in the preliminary file will be reassigned to specific causes if further, more specific cause-of-death information is provided.

A quantitative assessment of the degree of the non-sampling error can be made by comparing final data and preliminary data for the same year. A comparison of such data for the selected 113 causes of death for the total U.S. population from 2005 - 2007 indicates that preliminary estimates for some causes of death are sometimes underestimated and sometimes overestimated in the preliminary file (Table II). Thus, the number of deaths for unintentional injuries was underestimated in the preliminary file by 2.5 percent in 2005; 3.2 percent in 2006; and 5.4 percent in 2007. Similar undercounts occurred for suicide with preliminary underestimates of 2.7 percent in 2005; 3.3 percent in 2006; and 4.1 percent in 2007. Likewise, homicide showed a 2.4 percent underestimate in the preliminary file in 2005; 2.9 percent in 2006; and 4.6 percent in 2007.

Comparisons showing non-sampling error in preliminary estimates for causes of infant death are shown in Table III, where Disorders related to short gestation and low birth weight, not elsewhere classified (P07) was underestimated 0.1 percent in 2005; overestimated by 0.1 percent in 2006, and was underestimated 3.6 percent in 2007. Unintentional injuries (V01-X59) and SIDS (R95) were underestimated in the preliminary data for each of the three years 2005-2007 with unintentional injuries being underestimated between 1.3 percent and 3.7 percent, and SIDS between 5.5 percent and 13.7 percent (Table III).

Tabulation lists and cause-of-death ranking

Tabulation lists for ICD-10 are published in the NCHS Instruction Manual, Part 9, ICD-10 Cause-of-Death Lists for Tabulating Mortality Statistics, Updated March 2009 (40). For this report, two tabulation lists are used: the List of 113 Selected Causes of Death used for deaths of all ages, and the List of 130 Selected Causes of Infant Death used for infants. Modifications in the lists reflecting changes in ICD-codes are footnoted in the report tables. These lists are also used to rank leading causes of death for the two population groups (42). For the List of 113 Selected Causes of Death, the group titles Major cardiovascular diseases (ICD-10 codes I00-I78) and Symptoms, signs, and abnormal clinical and laboratory findings, not elsewhere classified (ICD-10 codes R00-R99) are not ranked. In addition,

category titles that begin with the words "Other" and "All other" are not ranked to determine the leading causes of death. When one of the titles that represents a subtotal is ranked (for example, Tuberculosis (ICD-10 codes A16-A19)), its component parts are not ranked (in this case, Respiratory tuberculosis (ICD-10 code A16) and Other tuberculosis (ICD-10 codes A17-A19)). For the List of 130 Selected Causes of Infant Death, the same ranking procedures are used, except that the category Major cardiovascular diseases is not on the list.

Infant mortality

The infant mortality rate is the most commonly-used index for measuring the risk of dying during the first year of life. The rates presented in this report are calculated by dividing the preliminary number of infant deaths that occurred during 2009 by the number of live births for the same period and are presented as rates per 1,000 or per 100,000 live births. For preliminary birth figures used in the denominator for infant mortality rates, see Births: Preliminary data for 2009 (32). In contrast to infant mortality rates based on live births, infant death rates are based on the estimated population under 1 year of age (Table 1). Infant death rates that appear in tabulations of age-specific death rates in this report are calculated by dividing the number of infant deaths in 2009 by the estimated population of persons under age 1 on July 1, 2009, and are presented as rates per 100,000 population in this age group. Because of differences in their denominators, infant death rates may differ from infant mortality rates. Information on infant deaths can also be obtained from a file where the infant's death certificate is linked to the birth certificate. The linked birth/infant death data set (linked file) is a better source of data for infant deaths and mortality rates by race and ethnicity because the race of the mother as reported by the mother on the birth certificate is used in both the numerator and denominator of the infant mortality rate. In contrast, for infant deaths and mortality rates in this report, race information for the denominator is the race of the mother as reported on the birth certificate, but the race information for the numerator is the race of the infant decedent as reported on the death certificate. Race information reported on the birth certificate is considered to be more accurate than that on the death certificate, because the race of each parent is usually reported on the birth certificate by the mother at the time of delivery, whereas on the death certificate, the race of the deceased infant is reported by the funeral director based on information provided by an informant or by observation. This difference in the method of reporting race data has a larger impact for races other than white and black and can lead to differences in race-specific infant mortality rates between the two data sources (31).

Life tables

The period life table provides a measure of the effect of current mortality on life expectancy. It is composed of sets of values showing the mortality experience of a hypothetical group of infants born at the same time and subject throughout their lifetime to the age-specific death rates of a particular time period, usually a given year. Beginning with final data reported for 1997, the life table methodology was changed from previous annual reports. Previously, U.S. life tables were abridged and constructed by reference to a standard table (43). In addition, the age range for these life tables was limited to 5-year age groups ending with the age group 85 years and over.

For 1997-1999 mortality data, a revised life table methodology was used to construct complete life tables by single years of age that extend to age 100 (44) using a methodology similar to that of the decennial life tables (45). The advantages of the new methodology over the previous methodology are its comparability with decennial life table methodology, greater accuracy, and greater age detail. A comparison of the two methods shows small differences in resulting values for life expectancy (44). Although the new method produces complete life tables, that is, life tables by single years of age, life table data shown in this report are summarized in 5-year age groupings. To calculate the probability of

dying at each age, the revised methodology uses vital statistics death rates for ages under 85 years and mortality data from the Medicare program for ages 85 years and over. Medicare data were used to model the probability of dying at ages 85 years and over because the data on decedents' age are shown to be significantly more reliable than vital statistics data at the oldest ages (46).

The methodology for constructing life tables was revised once more starting with mortality data for the year 2000. Life table data shown in this report for years 2008-2009 (Table 6) are based on this revised methodology. Complete life tables by single years of age that extend to age 100 were constructed using a methodology similar to that developed for the 1999-2001 decennial life tables (47). To calculate the probability of dying at each age, two major changes were made to the methodology: 1) Probabilities for ages 66 - 100 years were based on blended vital statistics and Medicare probabilities of dying (probabilities of death for ages 65 and under were based on vital statistics data as before); and 2) Smoothing and extrapolation of death rates for ages 66-100 years was performed using a mathematical model (47). In the previous method, Medicare probabilities were modeled for ages 85 years and over; no blending or smoothing was done. The newly revised methodology, along with a more comprehensive description of the methodology, was published in *United States Life Tables*, 2005 (48).

The life expectancy data shown in this report for the 2008 data year have been updated and may differ from those published in the report *Deaths: Preliminary Data for 2008* (22). The data were updated due to an error found in the original population data during the tabulation of the life tables for the 2008 report.

Population denominators

The rates in this report use population estimates based on the 2000 census and are estimated as of July 1, 2008 and July 1, 2009. These population estimates are available on the NCHS website (14,49).

The population estimates have been produced under a collaborative arrangement with the U.S. Census Bureau and are based on the 2000 census counts. Reflecting the new standards issued in 1997 by the Office of Management and Budget (OMB), the 2000 census included an option for persons to report more than one race as appropriate for themselves and household members (21). In addition, the 1997 OMB standards called for reporting of Asian persons separately from NHOPI. In the 1977 OMB standards, data for API persons were collected as a single group (17). Death certificates for 16 states currently collect only one race in the same categories as specified in the 1977 OMB standards (see "2003 revision of U.S. Standard Certificate of Death"). In addition, those death certificate data do not report Asians separately from NHOPI. Thus, for nearly one-third of the states, the death certificate data by race (numerators for death rates) are incompatible with population data collected in the 2000 census (the denominators for the rates).

In order to produce national death rates for 2008 and 2009, the reported population data for multiple-race persons had to be "bridged" back to single race categories. In addition, the census counts were modified to be consistent with the 1977 OMB racial categories; that is, to report the data for Asian persons and NHOPI as one combined category, API, and to reflect age as of the census reference date. The procedures used to produce the bridged populations are described in separate publications (19,20). Bridged data are anticipated to be used over the next few years for computing population-based rates. As more states collect data on race according to the 1997 OMB standards (21), use of the bridged populations is expected to be discontinued.

Computing rates and percentages

Death rates are on an annual basis per 100,000 estimated population residing in the specified area. Infant mortality rates are per 1,000 or per 100,000 live births.

Age-adjusted death rates (R') are used to compare relative mortality risks among groups and over time. However, they should be viewed as relative indexes rather than as actual measures of mortality risk. They were computed by the direct method; that is, by applying age-specific death rates (R_i) to the U.S. standard population (relative age distribution of year 2000 projected population of the United States); see the following formula for age-adjusted death rate, and the table of U.S. standard population (Table IV):

$$R' = \sum_{i} \frac{P_{si}}{P_{s}} R_{i}$$

where

 P_{si} = standard population for age group i

 P_s = total U.S. standard population [all ages combined (Table IV)]

Table IV. United States year 2000 standard population

Age	Population
All ages	274,633,642
Under 1 year	3,794,901
1-4 years	15,191,619
5-14 years	39,976,619
15-24 years	38,076,743
25-34 years	37,233,437
35-44 years	44,659,185
45-54 years	37,030,152
55-64 years	23,961,506
65-74 years	18,135,514
75-84 years	12,314,793
85 years and over	4,259,173

Age-adjusted death rates for injury at work were computed by applying the age-specific death rates to the U.S. standard population for ages 15 years and over. The year 2000 standard population used for computing age-adjusted rates and standard errors for injury at work is shown in Table V:

Table V. United States year 2000 standard population for ages 15 years and over

Age	Population
15 years and over	215,670,503
15-24 years	38,076,743
25-34 years	37,233,437
35-44 years	44,659,185
45-54 years	37,030,152
55-64 years	23,961,506
65 years and over	34,709,480

Age-adjusted rates for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas were computed by applying age-specific death rates to the U.S. standard population. Age groups for 75 years and over were combined because population counts were unavailable by age group for ages over 79 years. The year 2000 standard population used for computing age-adjusted rates and standard errors for the territories is shown in Table VI:

Table VI. United States year 2000 standard population for the territories

Age	Population
All ages	274,633,642
Under 1 year	3,794,901
1-4 years	15,191,619
5-14 years	39,976,619
15-24 years	38,076,743
25-34 years	37,233,437
35-44 years	44,659,185
45-54 years	37,030,152
55-64 years	23,961,506
65-74 years	18,135,514
75 years and over	16,573,966

Effective with 1999 data, the standard population was changed from 1940 to the year 2000 population in accordance with the new statistical policy promulgated by the Secretary of Health and Human Services in August 1998 (50). The new population standard affects levels of mortality and to some extent trends and group comparisons. Of particular note are the effects on race comparison of mortality; see *Age Standardization of Death Rates: Implementation of the Year 2000 Standard* (50). Beginning with 2003 data, the traditional standard million population along with corresponding standard weights to six decimal places were replaced by the projected year 2000 population age distribution. The effect of the change is negligible and does not significantly affect comparability with age-adjusted rates calculated using the previous method.

Death rates for the Hispanic population are based only on events to persons reported as Hispanic. Rates for non-Hispanic white persons are based on the sum of all events to white decedents reported as non-

Hispanic and white decedents with origin not stated. Likewise, rates for non-Hispanic black persons are based on the sum of all events to black decedents reported as non-Hispanic and black decedents with origin not stated. Hispanic origin is not imputed if it is not reported. For calculating death rates, deaths with age not stated are not distributed. The number of deaths with age not stated in 2009 was 315, approximately 0.01 percent of all deaths.

For statistics shown on tables throughout this report, an asterisk (*) indicates that the figure does not meet standards of reliability or precision. In this report two sets of criteria determine whether a figure meets these standards:

- Reporting for any particular variable is at least 80 percent complete. In this report, no data were suppressed based on this criterion.
- A rate or percentage is based on at least 20 deaths. Rates based on fewer than 20 deaths have a relative standard error (RSE) of about 23 percent or more and, therefore, are considered highly variable. For age-adjusted death rates, this criterion is applied to the sum of the age-specific deaths. However, some death rates (based on data files that are less than 100 percent complete and on 20-31 deaths) may have RSEs of 23 percent or more but are still shown instead of asterisks. As a result, caution should be exercised in analyzing rates based on 20-31 events. Additional information on random variation in numbers of events, rates, ratios, and percentages may be found in "Reliability of estimates."

Reliability of estimates

Because the preliminary estimates of deaths in this report are based on files that may not be complete, they are subject to sampling variability. This concept is reflected in the fact that record weights are used to adjust record counts to independent control totals. The lack of completeness of the vital statistics files is due to delays in receiving and processing the death records. Although the proportion of records making up the preliminary file does not constitute a veritable random sample, for the sake of convenience the variability associated with this error (sampling variability) is treated as if it were from a random sample.

Even where the number of vital events in this report is 100 percent complete and not subject to sampling variability, it might be affected by random variation. Thus, when the number of events is small and the probability of such an event is small, considerable caution must be observed in interpreting the data. Such infrequent events may be assumed to follow a Poisson probability distribution. The first column of Table VII shows the estimated RSEs of a file that is nearly 100 percent complete.

Data in a file that is less than 100 percent complete are affected by sampling variation as well as by random variation. The estimated RSEs in columns 2-6 of Table VII for various levels of file completeness are measures of the sampling errors and the random errors of the estimates. They do not include non-sampling error.

The estimated RSEs in Table VII were computed using this formula:

1.
$$RSE = 100 \sqrt{\frac{1}{X} + \frac{(1-f)(N-X)}{f X \left(N - \frac{1}{f}\right)}}$$

where

f = the sampling fraction or the percent of file completeness/100 from Table I. For mortality data based on deaths under 1 year of age, use f for "infant deaths" for either the demographic or medical file as appropriate. For mortality data based on all ages combined or any age group that is 1 year and over, use f for "deaths 1 year of age and over" for either the demographic or medical files as appropriate.

X = the estimated number of infant deaths or deaths.

N = total count of infant deaths or deaths for the United States or any state. (Note: The RSEs shown in Table VII are based on N = 4,000,000. If N is smaller, the RSEs may be slightly smaller than those shown.)

RSEs may be used to compute 95-percent confidence intervals for the number of events (X), for a rate (R), or for a percentage (P) and to compute statistical tests concerning the equality of two rates (R_1 and R_2) or two percentages (P_1 and P_2).

For the number of deaths, the 95-percent confidence interval may be computed as:

2. Lower limit:
$$X_1 - \left(1.96 * X_1 * \frac{RSE(X_1)}{100}\right)$$

3. Upper limit:
$$X_1 + \left(1.96 * X_1 * \frac{RSE(X_1)}{100}\right)$$

As a hypothetical example, assume the number of deaths, X_1 , is 70 from a file with 80-percent completeness. Then

Lower limit:
$$70 - \left(1.96 * 70 * \frac{13.4}{100}\right) = 51.6$$

Upper limit:
$$70 + \left(1.96 * 70 * \frac{13.4}{100}\right) = 88.4$$

This means that the chances are 95 times out of 100 that the confidence interval (51.6-88.4) will cover the "true" number of deaths.

For rates based on population estimates in the denominator, the 95-percent confidence interval may be computed as:

4. Lower limit:
$$R_1 - \left(1.96 * R_1 * \frac{RSE(R_1)}{100}\right)$$

5. Upper limit:
$$R_1 + \left(1.96 * R_1 * \frac{RSE(R_1)}{100}\right)$$

As a hypothetical example, assume the death rate, R_1 , is 20.0, which is based on 70 deaths from a file with 80-percent completeness. Then

Lower limit:
$$20.0 - \left(1.96 * 20.0 * \frac{13.4}{100}\right) = 14.7$$

Upper limit:
$$20.0 + \left(1.96 * 20.0 * \frac{13.4}{100}\right) = 25.3$$

This means that the chances are 95 times out of 100 that the confidence interval (14.7-25.3) will cover the "true" rate.

For age-adjusted death rates, R', the 95-percent confidence interval may be computed as follows:

6. Lower limit:
$$\vec{R} - \left(1.96 * \vec{R} * \frac{RSE(\vec{R})}{100}\right)$$

7. Upper limit:
$$R' + \left(1.96 * R' * \frac{RSE(R')}{100}\right)$$

where

8.
$$RSE(R') = 100 \frac{\sqrt{\sum_{i} \left[w_{i}^{2} R_{i}^{2} \left(\frac{1}{X_{i}} + \frac{(1 - f_{i})(N_{i} - X_{i})}{f_{i} X_{i} \left(N_{i} - \frac{1}{f_{i}} \right)} \right) \right]}}{R'}$$

where

i = each age group where i = 1 for infant deaths, i = 2 for 1-4 years,i = 3 for 5-14 years, . . . and i = 11 for 85 years and over.

 R_i = age-specific rate for the i^{th} age group.

 $w_i = i^{th}$ age-specific U.S. standard population such that $\Sigma w_i = 1.000000$ (see "Computing rates and percentages").

 X_i = the estimated number of deaths for the i^{th} age group.

 N_i = total count of deaths from Table I for each i^{th} age group (for infant deaths, use the count of records as shown; for all age groups 1-4 through 85 years and over, use the count of records as shown for deaths 1 year and over).

 f_i = percentage of file completeness/100 from Table I (for infant deaths, use the percent completeness for the demographic or medical file as appropriate for deaths under age 1 year; for all age

groups 1-4 through 85 years and over, use the percent completeness for the demographic or medical file as appropriate for deaths at ages 1 year and over).

For testing the equality of two rates, R_1 and R_2 , the following z-test may be used to define a significance test statistic:

9.
$$z = \frac{R_1 - R_2}{\sqrt{R_1^2 \left(\frac{RSE(R_1)}{100}\right)^2 + R_2^2 \left(\frac{RSE(R_2)}{100}\right)^2}}$$

The two-tailed 0.95 critical value for a z statistic is 1.96. Therefore, if $|z| \ge 1.96$, the difference is significant at the 0.05 level. If |z| < 1.96, then the difference would be considered not statistically significant at the 0.05 level.

As a hypothetical example, assume R_1 is the same as the above example for the current 12-month period and that R_2 , 15.0, is based on 50 deaths occurring in the prior 12-month period (which implies that the file is approximately 100 percent complete for R_2). The z-test may be determined as follows:

$$z = \frac{20.0 - 15.0}{\sqrt{(20.0)^2 \left(\frac{13.4}{100}\right)^2 + (15.0)^2 \left(\frac{14.1}{100}\right)^2}} = 1.46$$

Because |z| < 1.96, there is no statistically significant difference between the two rates at the 0.05 level of significance.

For rates or percentages based on denominators having random variation only or random and sampling variation, the RSE must take into account the variation in both the numerator and denominator. For example, for a rate, R_3 , based on the number of live births in the denominator, the RSE is computed as:

10.
$$RSE(R_3) = 100 \sqrt{\left(\frac{RSE(D)}{100}\right)^2 + \left(\frac{RSE(B)}{100}\right)^2}$$

where

RSE(D) = RSE of the number of deaths, D

RSE(B) = RSE of the number of births, B

The 95-percent confidence interval of R_3 may be computed as follows:

11. Lower limit:
$$R_3 - \left(1.96 * R_3 * \frac{RSE(R_3)}{100}\right)$$

12. Upper limit:
$$R_3 + \left(1.96 * R_3 * \frac{RSE(R_3)}{100}\right)$$

As a hypothetical example, assume the infant mortality rate, R_3 , is 15.0, which is based on 30 infant deaths (D) from a file with 70-percent completeness and 2,000 live births (B) from a file with 80-percent completeness. Then

RSE(
$$R_3$$
) = 100 $\sqrt{\left(\frac{21.8}{100}\right)^2 + \left(\frac{2.5}{100}\right)^2}$ = 21.9

Lower limit:
$$15.0 - \left(1.96 * 15.0 * \frac{21.9}{100}\right) = 8.6$$

Upper limit:
$$15.0 + \left(1.96 * 15.0 * \frac{21.9}{100}\right) = 21.4$$

This means that the chances are 95 times out of 100 that the confidence interval (8.6-21.4) will cover the "true" rate. The same formulas are applicable to a percentage (P_1) that has variation in both the numerator and denominator. To compare the equality of two infant mortality rates or two percentages that have variation in the numerator and denominator, the above-mentioned z-test may be used.

Text tables, Figures, and Report tables

Table A. Deaths, age-adjusted death rates, and life expectancy at birth, by race and sex; and infant deaths and mortality rates, by race: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

	All ra	aces ¹	White ²		Black ²		
Measure and sex	2009	2008	2009	2008	2009	2008	
All deaths	2,436,682	2,473,018	2,085,305	2,120,961	286,928	289,306	
Male	1,217,047	1,226,721	1,036,938	1,046,532	146,319	147,275	
Female	1,219,635	1,246,297	1,048,367	1,074,429	140,609	142,031	
Age-adjusted death rate ³	741.0	758.7	732.2	750.6	923.9	935.6	
Male	888.2	901.0	875.9	889.5	1,148.0	1,151.3	
Female	625.4	643.7	618.2	637.1	767.7	779.0	
Life expectancy at birth (in years)4	78.2	78.0	78.6	78.4	74.3	74.3	
Male	75.7	75.5	76.2	75.9	70.9	70.9	
Female	80.6	80.5	80.9	80.8	77.4	77.4	
All infant deaths	26,531	28,033	16,897	18,162	8,356	8,513	
Infant mortality rate ⁵	6.42	6.59	5.32	5.54	12.71	12.68	

¹Includes races other than white and black.

Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported for Arkansas, California, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Kansas, Maine, Michigan, Minnesota, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Dakota, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, South Dakota, Texas, Utah, Vermont, Washington, Wisconsin, and Wyoming in 2009 and 2008. The multiple-race data for these reporting areas were bridged to the single-race categories of the 1977 OMB standards for comparability with other reporting areas; see "Technical Notes."

³Age-adjusted death rates are per 100,000 U.S. standard population, based on the year 2000 standard.

Life expectancies for 2008 have been updated and may differ from those previously published; see "Technical notes."

⁵Infant mortality rates are deaths under 1 year per 1,000 live births in specified group.

Table B. Deaths and death rates for 2009 and age-adjusted death rates and percent changes in age-adjusted rates from 2008 to 2009 for the 15 leading causes of death: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population; age-adjusted rates per 100,000 U.S. standard population based on the year 2000 standard; see "Technical Notes." For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

				Age-a	adjusted dea	th rate
	Cause of death (Based on the International Classification		Death			Percent
Rank ¹	of Diseases, Tenth Revision, Second Edition, 2004)	Number	rate	2009	2008	change
	All causes	2,436,652	793.7	741.0	758.6	-2.3
1	Diseases of heart (I00-I09,I11,I13,I20-I51)	598,607	195.0	179.8	186.7	-3.7
2	Malignant neoplasms (C00-C97)	568,668	185.2	173.6	175.5	-1.1
3	Chronic lower respiratory diseases (J40-J47)	137,082	44.7	42.2	44.0	-4.1
4	Cerebrovascular diseases (l60-l69)	128,603	41.9	38.9	40.6	-4.2
5	Accidents (unintentional injuries) (V01-X59,Y85-Y86) ²	117,176	38.2	37.0	38.6	-4.1
6	Alzheimer's disease (G30)	78,889	25.7	23.4	24.4	-4.1
7	Diabetes mellitus (E10-E14)	68,504	22.3	20.9	21.8	-4.1
8	Influenza and pneumonia (J09-J18)	53,582	17.5	16.2	17.0	-4.7
9	Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	48,714	15.9	14.8	14.8	0.0
10	Intentional self-harm (suicide) (*U03,X60-X84,Y87.0) ²	36,547	11.9	11.7	11.6	0.9
11	Septicemia (A40-A41)	35,587	11.6	10.9	11.1	-1.8
12	Chronic liver disease and cirrhosis (K70,K73-K74)	30,444	9.9	9.2	9.2	0.0
13	Essential hypertension and hypertensive renal disease (I10,I12,I15)	25,651	8.4	7.7	7.7	0.0
14	Parkinson's disease (G20-G21)	20,552	6.7	6.4	6.4	0.0
15	Assault (homicide) (1001-1002, X85-Y09, Y87.1)2	16,591	5.4	5.5	5.9	-6.8
	All other causes (Residual)	471,455	153.6			

[.] Category not applicable.

NOTES: Data are subject to sampling and random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes."

¹Rank based on number of deaths.

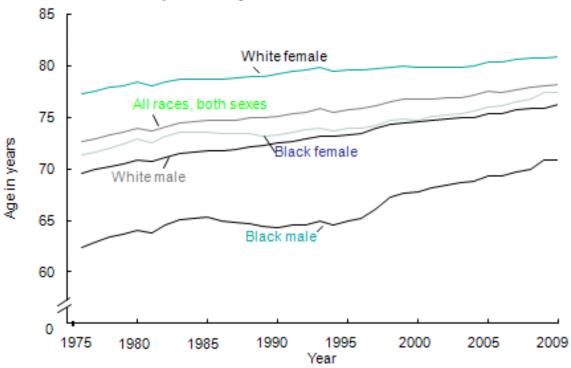
²For unintentional injuries, suicides, and homicides, preliminary and final data may differ significantly because of the truncated nature of the preliminary file.

and 2008-2009 preliminary 1,100 1,000 Age-adjusted Rate per 100,000 population 900 Crude 800 700 600 0 1980 1990 1995 2000 2005 2009 1985 Year

Figure 1. Crude and age-adjusted death rates: United States 1980-2007 final and 2008-2009 preliminary

NOTE: Crude death rates on an annual basis are per 100,000 population; age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

Figure 2. Life expectancy at birth, by race and sex: United States, 1975-2007 final and 2008-2009 preliminary



SOURCE: CDC/NCHS, National Vital Statistics System, Mortality.

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes."

	2009		2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate	
All races, both sexes					
All ages	2,436,682	793.7	2,473,018	813.3	
All ages	2,430,002	793.7	2,473,010	013.	
Jnder 1 year ¹	26,531	622.6	28,033	649.	
1-4 years	4,460	26.2	4,747	28.	
5-14 years	5,643	13.9	5,663	14.	
15-24 years	30,410	70.6	32,208	75.	
25-34 years	42,443	102.1	42,309	103.	
85-44 years	74,548	179.5	76,409	179.	
15-54 years	187,267	420.0	186,643	420.	
55-64 years	303,101	871.3	296,269	879.	
65-74 years	400,969	1,928.5	401,750	1,996.	
75-84 years	627,819	4,775.1	653,845	5,019.	
35 years and over	733,176	13,021.1	744,976	13,020.	
Not stated	315		166		
Age-adjusted rate ²		741.0		758.	
All races, male					
All ages	1,217,047	803.6	1,226,721	818.	
Jnder 1 year ¹	14,873	682.7	15,651	708.	
l-4 years	2,507	28.8	2,703	31.	
5-14 years	3,244	15.6	3,284	16.	
15-24 years	22,294	100.7	24,030	109.	
25-34 years	29,150	137.3	29,662	141.	
35-44 years	46,498	222.9	47,717	223.	
45-54 years	114,615	521.6	115,098	526.	
55-64 years	183,945	1,096.1	179,599	1,105.	
65-74 years	225,740	2,353.1	225,512	2,434.	
75-84 years	311,135	5,711.5	322,031	6,034.	
35 years and over	262,839	14,744.1	261,319	14,022.	
Not stated	206		115		
Age-adjusted rate ²		888.2		901.	
All races, female					
All ages	1,219,635	784.0	1,246,297	808.0	
Jnder 1 year ¹	11,658	559.7	12,382	588.	
I-4 years	1,953	23.4	2,044	25.	
5-14 years	2,399	12.1	2,379	12.	
15-24 years	8,116	38.8	8,178	39.	
25-34 years	13,293	65.3	12,647	63.	
35-44 years	28,050	135.7	28,692	135.	
15-54 years	72,652	321.2	71,546	317.	
55-64 years	119,155	661.8	116,670	669.	
65-74 years	175,229	1,564.7	176,238	1,623.	
75-84 years	316,684	4,112.6	331,814	4,315.	
35 years and over	470,337	12,222.9	483,656	12,535.	
Not stated	109	12,222.9	463,636	12,000.	
Age-adjusted rate ²	.00		ű.		

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes."

	2009		2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate	
Total white, both sexes					
All ages	2,085,305	844.3	2,120,961	864.	
Under 1 year ¹	16,897	520.4	18,162	549.	
1-4 years	3,159	24.2	3,350	26.	
5-14 years	4,000	12.7	4,072	13.	
15-24 years	22,237	66.4	23,627	71.	
25-34 years	31,433	96.8	31,123	96.	
35-44 years	56,241	170.7	57,627	170.	
45-54 years	145,807	399.0	144,834	397.	
55-64 years	243,556	831.6	238,951	840.	
65-74 years	337,884	1,891.9	338,817	1,959.	
75-84 years	555,011	4,817.2	579,658	5,051	
35 years and over	668,835	13,181.2	680,608	13,288.	
Not stated	244		130	13,200.	
NOT Stated	244		130		
Age-adjusted rate ²		732.2		750.	
White male					
All ages	1,036,938	846.1	1,046,532	860.	
Under 1 year ¹	0.456	560 F	10.151	600	
	9,456	569.5	10,151	600. 29.	
1-4 years	1,791	26.8	1,920	14.	
5-14 years	2,311	14.3	2,340 17,546		
15-24 years	16,223	94.0 129.7		102.	
25-34 years 35-44 years	21,746 35,572	212.2	22,075 36,677	133. 213.	
55-44 years 45-54 years	90,684	497.9	90,857	500.	
55-64 years	148,819	1,040.7	145,915	1,051.	
55-74 years		2,298.3	191,321	2,377.	
75-84 years	191,405 277,531	5,750.3	287,530	6,054.	
85 years and over	241,241	14,947.8	240,108	14,358	
Not stated	160	14,947.6	93	14,300.	
Age-adjusted rate ²		875.9		889.	
White female					
All ages	1,048,367	842.6	1,074,429	869.	
Under 1 year ¹	7,441	469.0	8,011	496.	
1-4 years	1,369	21.5	1,430	22.	
5-14 years	1,690	11.0	1,733	11.	
15-24 years	6,014	37.1	6,081	37.	
25-34 years	9,687	61.6	9,049	58.	
35-44 years	20,669	127.7	20,949	125.	
45-54 years	55,124	300.7	53,978	295.	
55-64 years	94,737	632.0	93,037	639.	
65-74 years	146,479	1,536.9	147,496	1,595.	
75-84 years	277,480	4,144.6	292,128	4,344.	
85 years and over	427,594	12,357.2	440,501	12,769	
Not stated	84		37		
Age-adjusted rate ²		618.2		637	

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes."

	2009		2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate	
Non-Hispanic white, both sexes					
All ages	1,935,927	957.6	1,981,198	982.0	
Laboration and	44.050	540.5	10.545	544.0	
Under 1 year ¹	11,658	516.5	12,545	544.0	
1-4 years	2,179	23.9	2,380	26.2	
5-14 years	2,857	12.2	3,082	13.2	
15-24 years	17,072	65.3	18,570	70.7	
25-34 years	25,054	100.8	24,868	101.6	
35-44 years	47,507	180.2	49,109	180.0	
45-54 years	129,908	409.4	130,455	410.4	
55-64 years	223,250	842.6	220,247	854.9	
65-74 years	314,166	1,917.3	316,695	1,994.5	
75-84 years	522,348	4,882.7	549,133	5,143.4	
85 years and over	639,807	13,422.0	654,028	13,556.3	
Not stated	123		88		
Age-adjusted rate ²		744.7		766.2	
Non-Hispanic white male					
Non-inspanie write male					
All ages	954,633	961.2	969,419	978.4	
Jnder 1 year ¹	6,547	566.8	7,044	596.3	
1-4 years	1,257	26.9	1,367	29.3	
5-14 years	1,677	14.0	1,811	15.1	
15-24 years	12,249	91.3	13,578	100.8	
25-34 years	17,068	136.0	17,348	140.6	
35-44 years	29,709	224.8	30,831	225.5	
45-54 years	80,296	510.2	81,342	515.9	
55-64 years	136,173	1,052.0	134,286	1,067.2	
65-74 years	177,944	2,322.4	178,750	2,413.2	
75-84 years	261,433	5,832.5	272,518	6,167.3	
85 years and over	230,211	15,295.4	230,484	14,721.1	
Not stated	67	15,295.4	230,464	14,721.1	
	O/		30		
Age-adjusted rate ²		891.7		908.6	
Non-Hispanic white female					
All ages	981,295	954.2	1,011,780	985.6	
Under 1 year ¹	5,111	463.8	5,500	488.9	
1-4 years	922	20.8	1,012	22.8	
5-14 years	1,179	10.4	1,271	11.1	
15-24 years	4,822	37.9	4,993	39.1	
25-34 years	7,986	64.9	7,520	62.0	
35-44 years	17,797	135.4	18,278	134.3	
45-54 years	49,612	310.3	49,112	306.6	
55-64 years	87,078	642.5	85,961	652.3	
65-74 years	136,222	1,561.5	137,944	1,628.4	
75-84 years	260,915	4,197.8	276,614	4,420.4	
85 years and over	409,596	12,557.5	423,543	12,996.7	
Not stated	409,390	12,557.5	30	12,990.7	
Age-adjusted rate ²		629.1		650	

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes."

	200	9	2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate	
Total black, both sexes					
All ages	286,928	699.8	289,306	716.7	
Latin Associat	0.050	1 170 7	0.540	4 400 7	
Jnder 1 year ¹	8,356	1,176.7	8,513	1,190.7	
-4 years	1,068	38.4	1,131	42.1	
5-14 years	1,300	20.2	1,287	20.1	
5-24 years	6,749	96.8	7,222	105.6	
25-34 years	9,211	154.4	9,287	159.8	
85-44 years	15,141	273.5	15,797	281.1	
45-54 years	35,447	646.3	35,994	665.4	
55-64 years	50,704	1,375.4	48,748	1,385.6	
65-74 years	51,943	2,649.5	51,810	2,734.4	
75-84 years	57,585	5,190.9	59,172	5,652.7	
35 years and over	49,371	13,467.3	50,315	12,071.2	
Not stated	53		30		
Age-adjusted rate ²		923.9		935.6	
Plank mala					
Black male					
All ages	146,319	745.9	147,275	763.4	
Jnder 1 year ¹	4,724	1,303.5	4,728	1,293.2	
I-4 years	577	40.8	654	47.8	
5-14 years	756	23.1	769	23.6	
15-24 years	5,100	144.3	5,522	159.4	
25-34 years	6,238	213.2	6,378	225.4	
35-44 years	8,957	343.4	9,201	348.0	
15-54 years	20,296	801.0	20,703	828.2	
55-64 years	29,918	1,820.1	28,686	1,827.7	
65-74 years	28,095	3,429.3	28,001	3,541.4	
75-84 years	26,147	6,394.9	27,094	7,107.5	
85 years and over	15,477	15,448.7	15,518	12,538.0	
Not stated	34	15,446.7	20	12,000.0	
	34				
Age-adjusted rate ²		1,148.0		1,151.3	
Black female					
All ages	140,609	657.5	142,031	674.0	
Jnder 1 year ¹	3,632	1,044.5	3,785	1,083.5	
1-4 years	491	36.0	477	36.1	
5-14 years	544	17.2	518	16.4	
15-24 years	1,649	48.0	1,701	50.4	
25-34 years	2,972	97.7	2,909	97.6	
85-44 years	6,183	211.2	6,596	221.7	
I5-54 years	15,151	513.4	15,290	525.5	
55-64 years	20,786	1,017.6	20,062	1,029.5	
65-74 years	23,848	2,089.8	23,809	2,156.4	
75-84 years	31,438	4,488.2	32,077	4,819.3	
35 years and over	33,894	12,722.2	34,797	11,874.0	
Not stated	20	12,722.2	10	11,074.0	

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes."

	200	2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate
Non-Hispanic black, both sexes				
All ages	282,694	727.4	285,959	746.4
1				
Under 1 year ¹	8,012	1,255.3	8,193	1,271.8
1-4 years	1,028	41.2	1,085	44.6
5-14 years	1,263	21.0	1,260	20.9
15-24 years	6,586	99.5	7,096	109.1
25-34 years	9,007	159.5	9,130	166.2
35-44 years	14,871	282.8	15,600	291.9
45-54 years	34,993	663.0	35,605	683.5
55-64 years	50,046	1,403.3	48,289	1,418.6
65-74 years	51,302	2,697.2	51,303	2,791.6
75-84 years	56,768	5,259.4	58,551	5,753.3
85 years and over	48,770	13,716.8	49,823	12,259.9
Not stated	48		24	
Age-adjusted rate ²		942.6		956.6
Non-Hispanic black male				
Non Filopaino Siaok maio				
All ages	144,001	776.1	145,377	795.5
Under 1 year ¹	4,542	1,394.6	4,542	1,379.5
1-4 years	561	44.2	624	50.4
5-14 years	733	24.0	752	24.6
15-24 years	4,980	148.5	5,428	164.8
25-34 years	6,090	220.5	6,252	234.2
35-44 years	8,788	355.1	9,080	361.5
45-54 years	20,002	821.2	20,450	850.4
55-64 years	29,496	1,857.5	28,378	1,871.3
65-74 years	27,734	3,494.6	27,702	3,617.3
75-84 years	25,755	6,485.2	26,797	7,243.7
85 years and over	15,290	15,824.9	15,358	12,760.9
Not stated	31		14	
Age-adjusted rate ²		1,173.2		1,178.3
Non-Hispanic black female				
Non-Hispanic black lemale				
All ages	138,693	683.0	140,582	701.6
Under 1 year ¹	3,471	1,110.5	3,651	1,159.1
1-4 years	467	38.0	461	38.6
5-14 years	530	17.9	508	17.1
15-24 years	1,607	49.2	1,669	52.0
25-34 years	2,917	101.2	2,878	101.9
35-44 years	6,083	218.5	6,520	230.2
45-54 years	14,991	527.4	15,155	540.4
55-64 years	20,550	1,038.7	19,911	1,054.8
65-74 years	23,568	2,126.3	23,600	2,201.6
75-84 years	31,013	4,545.8	31,753	4,902.0
85 years and over	33,480	12,930.1	34,465	12,049.1
Not stated	17		10	
Age-adjusted rate ²		782.6		796.1

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

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	200	2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate
Total AIAN, 3,4 both sexes				
All ages	14,941	426.8	14,785	432.1
-	,	,=0.0	,	
Jnder 1 year ¹	383	541.7	405	582.0
I-4 years	85	31.5	100	38.
5-14 years	114	20.2	97	17.
5-24 years	671	110.1	636	105.
25-34 years	751	141.7	774	151.
35-44 years	1,258	278.4	1,214	266.
15-54 years	2,172	485.8	2,090	477.
55-64 years	2,523	827.2	2,446	847.
55-74 years	2,656	1,738.0	2,668	1,844.
75-84 years	2,531	3,447.8	2,589	3,646.
35 years and over	1,786	6,722.6	1,762	6,155.
Not stated	11	0,722.0	3	0,100.
ioi otatoa	11		3	
Age-adjusted rate ²		603.2		610.
AIAN ^{3,4} male				
All ages	8,097	462.4	8,170	478.
	,		· ·	
Jnder 1 year ¹	213	592.5	234	659.
I-4 years	50	36.5	50	38.
5-14 years	56	19.6	52	18.
15-24 years	468	150.5	462	150.
25-34 years	501	182.1	530	199.
35-44 years	779	338.3	725	315.
45-54 years	1,251	574.0	1,318	618.3
55-64 years	1,494	1,022.7	1,440	1,039.3
65-74 years	1,433	2,009.3	1,466	2,172.8
75-84 years	1,219	3,907.6	1,271	4,156.
35 years and over	626	7,002.2	621	6,503.3
Not stated	8	1,002.2	- 021	0,303.
Age-adjusted rate ²		696.7		717.8
		090.7		717.0
AIAN ^{3,4} female				
All ages	6,843	391.2	6,615	386.3
Jnder 1 year ¹	170	489.1	170	498.3
1-4 years	35	26.3	50	39.
5-14 years	58	21.0	45	16.
15-24 years	203	68.0	174	58.
25-34 years	250	98.0	244	99.
35-44 years	479	216.1	488	217.
15-54 years	921	401.9	772	343.
55-64 years	1,029	647.5	1,006	669.
S5-74 years	1,223	1,500.6	1,202	1,557.
75-84 years	1,312	3,108.0	1,319	3,263.
35 years and over		6,575.1		
Not stated	1,159	6,5/5.1	1,141	5,981.
Age-adjusted rate ²		520.2		515.

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes"]

	2009	2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate
Total API, ⁵ both sexes				
All ages	49.508	318.8	47,966	319.1
4900	10,000	0.0.0	,000	0.0
Jnder 1 year ¹	895	383.2	953	423.6
1-4 years	147	15.5	165	18.8
5-14 years	228	10.9	206	10.6
15-24 years	752	37.1	722	37.1
25-34 years	1,048	40.4	1,125	45.0
35-44 years	1,908	73.7	1,772	68.0
15-54 years	3,841	181.4	3,725	177.7
55-64 years	6,317	419.3	6,124	421.6
65-74 years	8,485	1,035.3	8,455	1,070.8
75-84 years	12,692	2,860.5	12,426	2,868.2
85 years and over	13,185	8,072.4	12,291	7,958.5
Not stated	7		3	
Age-adjusted rate ²		413.2		414.2
API⁵ male				
All ages	25,693	341.3	24,744	338.
Jnder 1 year ¹	481	402.0	536	464.
1-4 years	90	18.6	79	17.
5-14 years	122	11.5	123	12.4
15-24 years	503	48.6	500	50.
25-34 years	665	52.7	679	55.0
35-44 years	1,190	94.8	1,114	87.
45-54 years	2,385	236.9	2,220	223.0
55-64 years	3,715	536.9	3,558	530.4
65-74 years	4,807	1,283.4	4,724	1,313.4
75-84 years	6,237	3,445.0	6,136	3,500.0
85 years and over	5,494	9,208.1	5,073	8,742.2
Not stated	5		2	
Age-adjusted rate ²		498.4		493.4
API⁵ female				
All ages	23,815	297.7	23,222	301.0
agoo	20,010	231.1	20,222	301.0
Jnder 1 year ¹	414	363.4	417	380.9
1-4 years	57	12.2	86	20.
5-14 years	107	10.4	83	8.6
15-24 years	250	25.2	222	23.4
25-34 years	384	28.9	445	35.
35-44 years	718	53.9	658	49.3
45-54 years	1,456	131.2	1,505	136.
55-64 years	2,602	319.5	2,566	328.
65-74 years	3,678	826.4	3,731	867.
75-84 years	6,455	2,457.6	6,290	2,438.
35 years and over	7,691	7,418.7	7,218	7,486.
Not stated	2		1	
Age-adjusted rate ²		348.8		353.

Table 1. Deaths and death rates by age, sex, race, and Hispanic origin, and age-adjusted death rates, by sex, race, and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Age-specific rates are per 100,000 population in specified group. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on w eighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on the death certificate. Data for Hispanic origin and specified races other than white and black should be interpreted with caution because of inconsistencies between reporting Hispanic origin and race on death certificates and on censuses and surveys; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes." Data for persons of Hispanic origin are included in the data for each race group, according to the decedent's reported race; see "Technical Notes"]

	2009		2008		
Age, sex, race, and Hispanic origin	Number	Rate	Number	Rate	
Hispanic, ⁶ both sexes					
All ages	140,533	290.2	140,103	298.	
Jnder 1 year ¹	5,436	492.1	5,891	531.	
1-4 years	1,014	23.2	1,030	24.	
5-14 years	1,164	13.1	1,019	12.	
15-24 years	5,145	65.0	5,202	69.	
25-34 years	6,303	77.1	6,408	78.	
35-44 years	8,554	121.1	8,644	123.	
45-54 years	15,150	293.2	14,428	289.	
55-64 years	19,129	638.8	18,602	651.	
65-74 years	22,242	1,419.8	22,092	1,467.	
75-84 years	30,240	3,474.4	30,492	3,619.	
35 years and over	26,129	8,062.6	26,283	8,390.	
Not stated	26		11		
Age-adjusted rate ²		519.0		536.	
Hispanic ⁶ male					
All ages	77,491	309.3	77,261	318.	
Jnder 1 year ¹	2,996	531.2	3,279	578.	
1-4 years	546	24.4	588	27	
5-14 years	646	14.3	548	12.	
15-24 years	3,944	94.9	4,076	103	
25-34 years	4,636	102.9	4,848	107	
35-44 years	5,737	151.7	5,934	159.	
45-54 years	9,908	374.0	9,513	374.	
55-64 years	11,846	816.0	11,518	835.	
65-74 years	12,517	1,768.0	12,506	1,839.	
75-84 years	14,769	4,070.7	14,938	4,288.	
35 years and over	9,930	8,673.7	9,502	8,475.	
Not stated	17		11		
Age-adjusted rate ²		618.0		634.	
Hispanic ⁶ female					
All ages	63,043	269.8	62,842	277.	
Jnder 1 year ¹	2,440	451.3	2,612	482.	
1-4 years	468	21.8	442	21.	
5-14 years	519	12.0	471	11.	
15-24 years	1,201	31.9	1,126	31.	
25-34 years	1,667	45.4	1,561	42.	
35-44 years	2,817	85.8	2,710	82.	
15-54 years	5,242	208.1	4,915	201.	
55-64 years	7,283	472.1	7,085	480.	
65-74 years	9,725	1,132.7	9,586	1,160.	
75-84 years	15,472	3,048.3	15,555	3,147.	
35 years and over	16,199	7,728.8	16,780	8,343.	
Not stated	9		-		
Age-adjusted rate ²		434.3		449	
Category not applicable. Quantity zero.					

NOTE: Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes.

² For method of computation, see "Technical Notes."

³AIAN is American Indian or Alaska Native.

⁴ Includes deaths among Aleuts and Eskimos.

⁵API is Asian or Pacific Islander.

⁶Includes all persons of Hispanic origin of any race; see "Technical Notes."

Table 2. Deaths, death rates, and age-adjusted death rates for 113 selected causes, Injury by firearms, Drug-induced deaths, Alcohol-induced deaths, Injury at work, and Enterocolitis due to Clostridium difficile: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Rates per 100,000 population. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." For explanation of asterisks (*) preceding cause-of-death codes; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

	_	2009	Age		2008	Λ
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate	Age- adjusted rate	Number	Rate	Age- adjusted rate
All causes	2,436,652	793.7	741.0	2,472,699	813.2	758.6
Coloranalla infrationa (A.O.A. A.O.O.)	200	0.0	0.0	40	0.0	0.0
Salmonella infections (A01-A02) Shigellosis and amebiasis (A03,A06)	26 11	U.U *	0.0	43	U.U *	0.0
_ _		2.2	2.1		2.6	2.4
Certain other intestinal infections (A04,A07-A09) ¹ Tuberculosis (A16-A19)	10,242 547	3.3 0.2	3.1 0.2	7,883 590	2.6 0.2	2.4 0.2
Respiratory tuberculosis (A16)	422	0.1	0.2	452	0.2	0.1
Other tuberculosis (A17-A19)	126	0.0	0.0	138	0.0	0.0
Whooping cough (A37)	15	*	*	20	0.0	0.0
Scarlet fever and erysipelas (A38,A46)	5	*	*	3	*	-
Meningococcal infection (A39)	97	0.0	0.0	102	0.0	0.0
Septicemia (A40-A41)	35,587	11.6	10.9	35,961	11.8	11.1
Syphilis (A50-A53)	33	0.0	0.0	34	0.0	0.0
Acute poliomyelitis (A80)	-	*	*	-	*	•
Arthropod-borne viral encephalitis (A83-A84,A85.2)	2	*	*	2	*	•
Measles (B05)	2	*	*		*	
Viral hepatitis (B15-B19)	7,652	2.5	2.2	7,631	2.5	2.3
Human immunodeficiency virus (HIV) disease (B20-B24)	9,424	3.1	3.0	10,295	3.4	3.3
Malaria (B50-B54) Other and unprecified infectious and perseitic diseases and their acquales (A00 A05 A20 A26 A42 A44	4		-	5		
Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20-A36,A42-A44, A48-A49,A54-A79,A81-A82,A85,0-A85.1,A85.8,A86-B04,B06-B09,B25-B49,B55-B99)	5,842	1.9	1.8	5,933	2.0	1.8
Malignant neoplasms (C00-C97)	568,668	185.2	173.6	566,137	186.2	175.5
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	7,913	2.6	2.4	8,031	2.6	2.4
Malignant neoplasm of esophagus (C15)	13,916	4.5	4.2	13,739	4.5	4.2
Malignant neoplasm of stomach (C16)	11,139	3.6	3.4	11,381	3.7	3.5
Malignant neoplasms of colon, rectum and anus (C18-C21)	52,462	17.1	16.0	53,337	17.5	16.5
Malignant neoplasms of liver and intrahepatic bile ducts (C22)	19,311	6.3	5.8	18,243	6.0	5.6
Malignant neoplasm of pancreas (C25)	35,872	11.7	10.9	35,267	11.6	10.9
Malignant neoplasm of larynx (C32)	3,633	1.2	1.1	3,759	1.2	1.2
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	158,105	51.5	48.4	158,873	52.3	49.6
Malignant melanoma of skin (C43)	9,254	3.0	2.8	8,643	2.8	2.7
Malignant neoplasm of breast (C50)	41,115	13.4	12.5	41,049	13.5	12.6
Malignant neoplasm of cervix uteri (C53)	3,909	1.3	1.2	4,018	1.3	1.3
Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)	7,636	2.5	2.3	7,682	2.5	2.4
Malignant neoplasm of ovary (C56)	14,513	4.7 9.2	4.4	14,373	4.7 9.4	4.4
Malignant neoplasm of prostate (C61) Malignant neoplasms of kidney and renal pelvis (C64-C65)	28,154 13,027	4.2	8.6 3.9	28,517 12,915	4.2	8.8 4.0
Malignant neoplasm of bladder (C67)	14,315	4.2	4.4	14,053	4.2	4.0
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	14,192	4.6	4.4	13,739	4.5	4.3
Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)	55,462	18.1	17.1	54,998	18.1	17.2
Hodgkin's disease (C81)	1,265	0.4	0.4	1,170	0.4	0.4
Non-Hodgkin's lymphoma (C82-C85)	20,361	6.6	6.3	20,374	6.7	6.3
Leukemia (C91-C95)	22,697	7.4	7.0	22,357	7.4	7.0
Multiple myeloma and immunoproliferative neoplasms (C88,C90)	11,072	3.6	3.4	11,038	3.6	3.4
Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue (C96)	66	0.0	0.0	59	0.0	0.0
All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,C44-C49,C51-C52,						
C57-C60,C62-C63,C66,C68-C69,C73-C80,C97)	64,738	21.1	19.8	63,519	20.9	19.7
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	14,616	4.8	4.5	14,481	4.8	4.5
Anemias (D50-D64)	4,652	1.5	1.4	5,033	1.7	1.5
Diabetes mellitus (E10-E14)	68,504	22.3	20.9	70,601	23.2	21.8
Nutritional deficiencies (E40-E64)	2,836	0.9	0.8	2,981	1.0	0.9
Malnutrition (E40-E46) Other putritional deficiencies (EE0 E64)	2,672	0.9	0.8	2,767	0.9	0.8
Other nutritional deficiencies (E50-E64) Meningitis (G00,G03)	164 648	0.1	0.0	214 633	0.1	0.1
Parkinson's disease (G20-G21)	20,552	6.7	6.4	20,507	6.7	6.4
Alzheimer's disease (G20)	78,889	25.7	23.4	82,476	27.1	24.4
Major cardiovascular diseases (I00-I78)	779,367	253.9	234.4	804,899	264.7	243.6
Diseases of heart (100-109,111,113,120-151)	598,607	195.0	179.8	617,527	203.1	186.7
Acute rheumatic fever and chronic rheumatic heart diseases (100-109)	3,251	1.1	1.0	3,149	1.0	1.0
Hypertensive heart disease (I11)	33,029	10.8	9.8	32,374	10.6	9.7
Hypertensive heart and renal disease (I13)	2,880	0.9	0.9	2,867	0.9	0.9
Ischemic heart diseases (I20-I25)	385,723	125.6	115.9	405,019	133.2	122.6

Table 2. Deaths, death rates, and age-adjusted death rates for 113 selected causes, Injury by firearms, Drug-induced deaths, Alcohol-induced deaths, Injury at work, and Enterocolitis due to Clostridium difficile: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Rates per 100,000 population. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." For explanation of asterisks (*) preceding cause-of-death codes; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Casse of death (Based on the International Chairs (Cassel Californ, 2004) Number Rate			2009	Age-		2008	Age-
Other acute ischemic hand diseases (10,105) Other forms of chronic ischemic hand diseases (10,105) Althorocolorisc cardiolescular diseases, on described (15,0) Althorocolorisc cardiolescular diseases, on described (15,0) Althorocolorisc cardiolescular diseases, on described (15,0) Other hand diseases (16,051) Althorocolorisc cardiolescular diseases, on described (15,0) Other hand diseases (16,051) Althorocolorisc cardiolescular diseases, on described (15,0) Other hand diseases (16,051) Acute and stakes endocadiatis (133) Hand failure (150) Althorocolorisc (15,051)	· ·	Number	Rate	adjusted	Number	Rate	adjusted
Other acute ischemic hand diseases ([24] 3,953 1,3 1,2 4,233 1,4 1 1,4 1,4 1,4 1,5 1,5 1,4 1,4 1,5 1,4 1,4 1,5 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4 1,4	Acute myocardial infarction (I21-I22)	125,361	40.8	37.8	133,723	44.0	40.7
Other forms of chronic schemic heart diseases (20,25)							1.3
Althemoclarotic cardiovascular diseases, so described (IZ-5) 56,711 15,6 17,0 56,517 19,2 1 1 1 1 1 1 1 1 1							80.6
All other forms of chromic schemic heart deseses (E0, LES 1-125, 9) Other heart diseases (E6-157) Acute and subsoucte embocarditis (E3) 1, 11, 11, 11, 11, 11, 11, 11, 11, 11,							17.6
Other heart diseases (I26-I51) Acute and subsetule endocuratis (ISC) Acute and subsetule endocuratis (ISC) Diseases of pericardium and acute myocardisis (ISC)-ISI,14(0) Diseases of pericardium and acute myocardisis (ISC)-ISI,14(0) BSS7 0.3 0.2 829 0.3 Heart failure (ISC) Heart failure (ISC) BSS7 18.5 18.5 18.5 15.72.15 18.8 1 All other forms of heart diseases (ISC-ISI,14-ISI,14-ISI) All other forms of heart diseases (ISC-ISI,14-ISI	. , ,						63.0
Acute and subsouce endocardisis (ISS) Desides of pericardium and acute myocardisis (ISP-SI,140) Desides of pericardium and acute myocardisis (ISP-SI,140) Heaf failure (ISO) Heaf failur							52.6
Diseases of pericardium and acute myocardinis (90-S1, 140)							0.4
Heat failure (60) All other forms of heard disease (126-128,134-18,142-49)(51) 114,971 37.4 All other forms of heard diseases (126-128,134-18,142-49)(51) 114,971 37.4 All other forms of heard diseases (126-128,134-18,142-49)(51) 128,063 128,063 141,9 38.4 37.7 25,822 8.5 Centrobrosscular diseases (196-108) 128,063 141,9 38.9 133,705 162,063 141,9 38.9 133,705 163,063 141,9 38.9 133,705 164,063 165,063 167,063							0.3
All other forms of heart diseases (160-163, 143, 143, 144, 145, 155, 161, 145, 165, 165, 164, 147, 145, 145, 145, 145, 145, 145, 145, 145							17.0
Essantial hypertension and hypertensive renal disease (10,112,115) 25,632 3,5	All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)						34.9
Cerebrosecular diseases (Bib-Ref) 128,603 41,9 38,9 133,750 44.0 4 Atheroactorosis (170) 7,341 2,4 2,5 2,6 2,6 Cher diseases of circulatory system (IPL-TR) 19,665 6,2 5.8 19,862 6,6 Cher diseases of circulatory system (IPL-TR) 19,565 6,2 5.8 3,3 11,088 3,6 Cher diseases of circulatory system (IRD-B9) 19,962 6,6 Cher diseases of circulatory system (IRD-B9) 40,44 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3 1,2 4,034 1,3	·		8.4				7.7
Atheroscierosis (I70) Other dissosse of circulatory system (I71-178) Antic aneurysm and dissocition (I71) Other dissosse of direction, attrools and capillaries (I72-I78) Other dissosses of direction, attrools and capillaries (I72-I78) Other dissocities of circulatory system (I80-I89) Influenza and promomica (J09-J18) Findluenza (J09-J11) Peneumonia (J12-J18) Other acute lower respiratory infections (J20-J22,U04) Other acute lower respiratory infections (J20-J22,U04) Other and unspecified calue lower respiratory infections (J20-J22,U04) Other and unspecified discussion (J40-J42) Other and unspecified (J40-J42) Other discussion (J40-J42) Other discussion (J40-J42) Other chincile lower respiratory diseases (J44-J47)							40.6
Other disasses of circulatory system (IT-170) 19,165 6.2 5.8 19,962 6.6 Ancia ansurym and disascellor (IT1) 10,581 3.3 3.1 11,088 3.6 Other disorates of circulatory system (IR0-99) 4,044 1.3 1.2 4,044 1.3 Influenza (IR0-117) 2,808 0.9 9,721 6.6 8.864 2.8 2.6 58,352 1.75 16.2 56,353 1.5 1 Presumonia (I12-I15) 5,0774 16,5 15,3 56,614 18.0 1 Other acute lower respiratory infections (I20-I22,U04) 283 0.1 0.1 225 0.1 Acute brunchitis and bronchibitis (I20-I27) 228 0.1 0.1 225 0.1 Other acute lower respiratory infections (I20-I22,U04) 33,00 0.0 0.0 0.0 0.0 0.0 Chronic lower respiratory diseases (J40-I47) 137,082 447 42.2 141,075 46.4 4 Salta (IA) 3,345 1.1 1.0 3.3							2.3
Andrei aneutysm and dissection (I71) Other dissected and relien, afferdoles and capillaries (I72-I78) Other dissociates of directia, afferdoles and capillaries (I72-I78) Other dissociates of circulation y system (I80-199) 5,362 1,762 1,762 1,763 1,762 1,763 1,762 1,763 1,7	, ,						6.1
Other discesses of arteries, arterioles and capillaries (172-178) 8,564 2,8 2,6 8,864 2,9							3.4
Other disorders of circulatory system (80-99) Influenza and premumoria (M9-119) ² Influenza (M9-111) ² Presumoria (M2-111) ² Presumoria (M2-111) ² Other acute lower respiratory infections (AD-Azz, UM4) Acute branchilistic (AD-Azz) Other and unspecified acute lower respiratory infections (AZZ, UM4) 13,88 10,000 50,000 50,000 50,000 Chronic lower respiratory diseases (AM-AYT) 13,892 Emplysema (AS) Astronic (AB-Az, Azz, Azz, Azz, Azz, Azz, Azz, Azz,							2.7
Influenza (ADP-JH) ² 2,808 0,9 0,9 1,72 0.6 Prisumonia (J12-JHS) 2,808 0,9 0,9 1,72 0.6 Prisumonia (J12-JHS) 5,074 16.5 15.3 54,614 18.0 1 Other acute lower respiratory infections (20-J22,U04) 283 0.1 0.1 285 0.1 Other acute lower respiratory infections (J20-J22,U04) 283 0.1 0.1 285 0.1 Other and unspecified acute lower respiratory infections (J22,U04) 38 0.0 0.0 0.0 Other acute brown this and bronchiolistic (J20-J27) 38 0.0 0.0 0.0 Other acute brown this and bronchiolistic (J20-J27) 38 0.0 0.0 0.0 Other drawing peritary diseases (J40-J47) 137,082 47, 42.2 141,075 46.4 4 Bronchitis, chronic and unspecified (J40-J42) 558 0.2 0.2 733 0.2 Emphysema (J43) 1.0 1.0 3,395 1.1 Asthma (J45-J46) 3,345 1.1 1.0 3,395 1.1 Other chronic lower respiratory diseases (J44,J47) 122,185 39,8 37.6 124,499 40,9 3 Preumonicis due to solida and liquidis (J89) 15,928 5.2 4.8 16,622 5.5 Other diseases of respiratory system (J60-J66,J30-J39,J67,J70-J88) 30,655 10.0 94 30,000 9.9 Prepictic ulcer (C54-K28) 2,237 1.0 0.9 3,070 1.0 Diseases of appendix (K75-K28) 428 0.1 0.1 420 0.1 Hermia (K40-K46) 1,821 0.6 0.5 1,682 0.6 Othoric liner diseases (AFG) propriet and emphysiosis (K70-K73-K74) 1,821 0.6 0.5 1,682 0.6 Other chonic liner diseases (AFG) propriet and emphysiosis (K70-K73-K74) 1,324 0.6 0.5 1,682 0.6 Other chonic liner diseases and cirrhonics (K70-K73-K74) 1,324 0.6 0.5 1,682 0.6 Other chonic liner diseases and cirrhonic syndrome (Mothor) 4,800 0.0 Other chonic liner diseases (K70) propressive emphysiosis (K70-K73-K74) 1,33 0.1 0.0 1,345 1.1 Other diseases (K70) propressive emphysiosis (K70-K73-K74) 1,33 0.1 0.0 1,345 1.1 Other chonic liner diseases (K70) propressive emphysiosis (K70-K73-K74) 1,34 0.0 0.0 1,33 0.0 Other chonic liner diseases (K70) propr							1.2
Influenza (J09-J11) ² Presumonia (J12-J18) Other acute lower respiratory infections (Z0-J22-U04) Solution and pronchiolitis (J20-J21) Acute brunchitis and bronchiolitis (J20-J21) Other and unspecified acute lower respiratory yinfections (J22-U04) Solution and pronchiolitis (J20-J21) Other and unspecified acute lower respiratory yinfections (J22-U04) Solution and unspecified (J40-J42) Solution and J42-J42 Solution and J42-							17.0
Phesumonia (Jr2-J18) 16.5 15.3 5.4 18.0 1 1.2							
Other acute lower respiratory infections (260-122,U04) 283 0.1 0.1 285 0.1 Acute bromchis and bromcholistic (20-21) 226 0.1 0.1 235 0.0 Other and unspecified acute lower respiratory infections (122,U04) 38 0.0 0.0 50 0.0 Chronic lower respiratory diseases (Md-WT) 137,082 447 422 141,075 48.4 4 Bronchitis, chronic and unspecified (Md-V42) 636 0.2 0.2 733 0.2 Emphysema (M3) 1.1 1.0 3.985 1.1 1.0 3.985 1.1 Other chronic lower respiratory gleases (JM4,JM7) 122,185 38.8 37.6 124,489 40.9 3 Penumocronicses and chemical effects (JK0-J66,J68) 843 0.3 0.3 908 0.3 Penumocronicses and chemical effects (JK0-J66,J68) 15,928 5.2 4.8 16,622 5.5 Other diseases of respiratory system (M0-J06,J30-J39,J67,J70-J98) 3,055 1.0 9.9 3,070 1.0 Desseases of appe							0.5
Acute bronchis and bronchiolitis (ADL-AZI) Other and unspecified cute lower respiratory infections (JZ2,UO4) 38 0,0 0,0 50 0,0 Chronic lower respiratory diseases (J40-J47) 137,082 44.7 42.2 141,075 48.4 4 Bronchistis, chronic and unspecified (J40-J42) 686 0.2 0.2 733 0.2 Emphysema (J43) 1,916 3.6 3.4 12,459 4.1 Asthma (J45-J46) 3,345 1.1 1,0 3,395 1.1 Asthma (J45-J46) 3,345 1.1 1,0 3,395 1.1 Asthma (J45-J46) 3,345 1.1 1,0 3,395 1.1 Other chronic lower respiratory diseases (J44,J47) 122,186 3.8 3.6 124,489 40.9 Preumocnoises and chemical effects (J60-J66,J66) 843 0.3 0.3 905 0.3 Preumonic stee to solids and liquids (J89) Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 15,926 5.2 4.8 16,622 5.5 Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 15,926 5.2 4.8 16,622 5.5 Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 15,926 7.2 Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 15,926 7.2 Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) 16,926 7.2 Diseases of appendix (K35-K38) 428 0.1 0.1 420 0.1 Hamia (K40-K46) 1,921 0.6 0.5 1,826 0.6 Chronic liker disease and cirrhois (K70,K73-K74) 30,444 9.9 9 9.2 2,9963 9.9 Alcoholic liker disease (K70) 15,107 4.9 4.5 14,859 4.9 Alcoholic liker disease and cirrhois (K70,K73-K74) 15,338 5.0 4.6 15,104 5.0 Chrolitikasis and other disorders of galibladder (K80-K82) Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON,NT-NI)-NZ5-NZ7) 48,714 1.1 1.0 3,425 1.1 Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON,NT-NI)-NZ5-NZ7) 48,714 1.1 1.0 3,425 1.1 Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON,NT-NI)-NZ5-NZ7) 48,714 1.1 1.0 3,425 1.1 Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON,NT-NI)-NZ5-NZ7 1.3 Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON,NT-NI)-NZ5-NZ7 1.3 Acute and rapidly progressive nephritic and nephroic syndrome (NO-NON)-NT-NI 1							16.4
Other and unspecified acute lower respiratory infections (J22,U04) 38 0.0 0.0 50 0.0 Chronic lower respiratory diseases (J40-J47) 137,082 44,7 42.2 141,75 48.4 4 Bronchitis, chronic and unspecified (J40-J42) 636 0.2 0.2 733 0.2 Emphysema (J43) 11,916 3.6 3.4 12,459 4.1 Asthma (J45-J46) 3.345 1.1 1.0 3.395 1.1 Other chronic lower respiratory diseases (J44,J47) 122,185 39.8 37.6 124,489 40.9 3 Preumocnioses and chemical effects (J60-J66,J69) 15,528 5.2 4.8 16,622 5.5 Under diseases for respiratory ystem (J00-J06,J30-J39,J67,J70-J98) 30,655 10.0 9.9 3,070 1.0 Diseases of appendix (K35-K38) 428 5.2 4.8 16,622 5.5 Under (Sex Sex Sex Sex Sex Sex Sex Sex Sex Sex							0.1
Chronic lower respiratory diseases (J40,J47)							0.1
Bronchitis, chronic and unspecified (J40-J42)							0.0
Emphysema (JAS) 10,916 3,6 3,4 12,459 4,1 Asthma (JAS-JAB) 3,345 1,1 1,0 3,355 1,1 Cher chronic lower respiratory diseases (JA4,JA7) 122,185 39,8 37,6 124,489 40,9 3 7 7 7 7 7 7 7 7 7							44.0
Asthma (J45-J46) Other chronic lower respiratory diseases (J44,J47) Other chronic lower respiratory diseases (J44,J47) Preumoconicese and chemical effects (J60-J66,J68) Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) Other diseases of the disease and cirrhosis (K70,K73-K74) Other diseases of the disease and cirrhosis (K70,K73-K74) Other diseases of diseases of the disease and cirrhosis (K70,K73-K74) Other diseases of diseases of diseases and cirrhosis (K70,K73-K74) Other diseases of diseases of diseases of galibladder (K80-K82) Other chronic liver disease and cirrhosis (K70-K74) Other chronic liver diseases of diseases of galibladder (K80-K82) Other diseases of the other diseases of diseases of prephric syndrome (M00-N07,N04) Other diseases of final profits syndrome on the phropathy not specified as acute or chronic, and renal sclerosis unspecified (N20-M3), N5-N07, N26) Other diseases of final profits syndrome on the phropathy not specified as acute or chronic, and renal sclerosis unspecified (N20-M3), N5-N07, N26) Other diseases of final profits of the disease of final prof							0.2
Chier chronic lower respiratory diseases (J44,J47) 122,185 39.8 37.6 124,489 40.9 3 7 7 7 7 7 7 7 7 7	, , , ,	10,916	3.6		12,459		3.9
Preumonitis due to solids and liquids (J69) 66,J68) Premonitis due to solids and liquids (J69) Porter diseases of respiratory system (J00-J00,J30-J39,J67,J70-J98) Deptic ulcer (K25-K28) Deptic	, ,						1.0
Premomitis due to solids and liquids (J69) Other diseases of respiratory system (J00-J06,J30-J39,J67,J70-J98) Diseases of appendix (K25-K28) Diseases of appendix (K35-K38) Language of Alexandria (K35-K38) Diseases of appendix (K35-K38) Language of Alexandria (K35-K38) Language of Alexandria (K35-K38) Language of Alexandria (K70,K73-K74) Diseases of appendix (K35-K38) Language of Alexandria (K70,K73-K74) Language of Language of Alexandria (K70,K73-K74) Language of Language of Alexandria (K70,K73-K74) Language of Language o							38.8
Other diseases of respiratory system (J00-J06, J30-J39, J67, J70-J88) 30,655 10.0 9.4 30,000 9.9 Peptic ulcer (K25-K28) 2,937 1.0 0.9 3,070 1.0	Pneumoconioses and chemical effects (J60-J66,J68)	843	0.3	0.3	905	0.3	0.3
Peptic uber (K25-K28)							5.0
Diseases of appendix (K35-K38) 428							9.3
Hemia (K40-K46)	Peptic ulcer (K25-K28)	2,937	1.0	0.9	3,070	1.0	0.9
Chronic liver disease and cirrhosis (K70,K73-K74) Alcoholic liver disease (K70) Alcoholic liver disease (K70) Alcoholic liver disease and cirrhosis (K73-K74) 15,338 5.0 4.6 15,104 5.0 Chole lithinic liver disease and cirrhosis (K73-K74) 15,338 5.0 4.6 15,104 5.0 Chole lithinic liver disease and cirrhosis (K73-K74) 15,338 5.0 4.6 15,104 5.0 Chole lithinic liver disease and cirrhosis (K73-K74) 15,338 5.0 4.6 11,1 1.0 3,425 1.1 1.0 Nephritis, nephrotic syndrome and nephrosis (N00-N07, N17-N19, N25-N27) 48,714 15.9 14.8 48,728 14.8 15.9 14.8 Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01, N04) 163 0.1 Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03, N05-N07, N26) 4,897 1.6 1.5 4,120 1.4 Renal failure (N17-N19) 43,628 14.2 13.3 43,965 14.5 1 Chred disorders of kidney (N25,N27) 25 0.0 0.0 0.3 3 0.0 Inflections of kidney (N10-N12,N13,6,N15.1) 602 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0.2 0	Diseases of appendix (K35-K38)	428	0.1	0.1	420	0.1	0.1
Alcoholic liver disease (K70) Other chronic liver disease and cirrhosis (K73-K74) Nephritis, nephrotic sand other disorders of gallbladder (K80-K82) Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27) Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04) 163 0.1 0.0 165 0.1 Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26) Renal failure (N17-N19) 48,877 48,897 1.6 1.5 4,120 1.4 Renal failure (N17-N19) Other disorders of kidney (N25,N27) 25 0.0 0.0 0.3 10 Infections of kidney (N10-N12,N13.6,N15.1) 602 0.2 0.2 629 0.2 Hyperplasia of prostate (N40) Inflammatory diseases of female pelvic organs (N70-N76) 138 0.0 0.0 0.1 133 0.0 Pregnancy, childbirth and the puerperium (O00-099) 873 0.3 0.3 774 0.3 Pregnancy with abortive outcome (O00-O07) 0ther complications of pregnancy, childbirth and the puerperium (O10-O99) 879 0.0 Certain conditions originating in the perinatal period (P00-P96) 13,114 4.3 4.2 13,889 4.6 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 9,927 3.2 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,776 38.2 37.0 121,207 39,9 3 30.3 30.3 3740 30.3 3	Hemia (K40-K46)	1,821	0.6	0.5	1,682	0.6	0.5
Other chronic liver disease and cirrhosis (K73-K74)	Chronic liver disease and cirrhosis (K70,K73-K74)	30,444	9.9	9.2	29,963	9.9	9.2
Cholelithiasis and other disorders of gallbladder (K80-K82) 3,286 1.1 1.0 3,425 1.1 Nephritic syndrome and nephrosis (N00-N07,N17-N19,N25-N27) 48,714 15.9 14.8 48,283 15.9 1 Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04) 163 0.1 0.0 165 0.1 Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26) 4,897 1.6 1.5 4,120 1.4 Renal failure (N17-N19) 43,628 14.2 13.3 43,965 14.5 1 Other disorders of kidney (N12-N12,N13,6,N15.1) 600 0.2 0.2 0.2 629 0.2 Hyperplasia of prostate (N40) 1.0 1 504 0.2 Hyperplasia of female pelic organs (N70-N76) 1.0 1 504 0.2 Hyperplasia of female pelic organs (N70-N76) 1.0 1 504 0.2 Hyperplasia Hyperplasia Hyperplasia Hyperplasia Hyperplasia Hyperplasia Hyperplasia Hyperpl	Alcoholic liver disease (K70)	15,107	4.9	4.5	14,859	4.9	4.5
Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27) 48,714 15.9 14.8 48,283 15.9 1	Other chronic liver disease and cirrhosis (K73-K74)	15,338	5.0	4.6	15,104	5.0	4.6
Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04) Chronic glomerulonephritits, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26) Renal failure (N17-N19) 43,628 4,897 1.6 1.5 4,120 1.4 Renal failure (N17-N19) 43,628 4,897 1.6 1.5 4,120 1.4 Renal failure (N17-N19) 43,628 14.2 13.3 43,965 14.5 1 Other disorders of kidney (N25,N27) (N10-N12,N13,6,N15.1) 602 0.2 602 0.2 609 0.2 Hyperplasia of prostate (N40) 138 0.0 0.0 133 0.0 Renal failure (N17-N19) 438 0.1 0.1 504 0.2 Inflammatory diseases of female pelvic organs (N70-N76) 138 0.0 0.0 133 0.0 Renal failure (N17-N19) 438 0.0 0.0 133 0.0 Renal failure (N17-N19) 138 0.0 0.0 138 0.0 0.0 133 0.0 Renal failure (N17-N19) 138 0.0 0.0 138 0.0 0.0 133 0.0 Renal failure (N17-N19) 138 0.0 0.0 133 0.0 Renal failure (N17-N19) 138 0.0 0.0 133 0.0 0.0 133 0.0 Renal failure (N17-N19) 138 0.0 0.0 0.0 138 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	Cholelithiasis and other disorders of gallbladder (K80-K82)	3,286	1.1	1.0	3,425	1.1	1.0
Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26) Renal failure (N17-N19) 43,628 41,2 33,3 43,965 14,5 1.6 1.5 4,120 1.4 1.5 Other disorders of kidney (N25,N27) 25 0.0 0.0 10,0 1	Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	48,714	15.9	14.8	48,283	15.9	14.8
Science Scie	Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)	163	0.1	0.0	165	0.1	0.0
Renal failure (N17-N19) Other disorders of kidney (N25,N27) (Infections of kidney (N10-N12,N13,6,N15.1) (Infections of prostate (N40) (Inflammatory diseases of female pelvic organs (N70-N76) (Inflammatory diseases (N70-N79, N70-N79, N70-	Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal						
Other disorders of kidney (N25,N27) Infections of kidney (N10-N12,N13.6,N15.1) 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 602 0.2 603 602 603 603 604 605 605 606 607 608 608 608 609 609 609 609 609	sclerosis unspecified (N02-N03,N05-N07,N26)	4,897	1.6	1.5	4,120	1.4	1.2
Infections of kidney (N10-N12,N13.6,N15.1) 602 0.2 0.2 629 0.2 Hyperplasia of prostate (N40) 1504 0.2 Hyperplasia of prostate (N40,000,000,000,000,000,000,000,000,000,	Renal failure (N17-N19)	43,628	14.2	13.3	43,965	14.5	13.5
Hyperplasia of prostate (N40)	Other disorders of kidney (N25,N27)	25	0.0	0.0	33	0.0	0.0
Inflammatory diseases of female pelvic organs (N70-N76) 138 0.0 0.0 133 0.0 Pregnancy, childbirth and the puerperium (O00-099) 873 0.3 0.3 774 0.3 Pregnancy with abortive outcome (O00-O07) 34 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		602	0.2	0.2	629	0.2	0.2
Inflammatory diseases of female pelvic organs (N70-N76) 138 0.0 0.0 133 0.0 Pregnancy, childbirth and the puerperium (O00-099) 873 0.3 0.3 774 0.3 Pregnancy with abortive outcome (O00-O07) 34 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Hyperplasia of prostate (N40)	438	0.1	0.1	504	0.2	0.1
Pregnancy, childbirth and the puerperium (O00-099) 873 0.3 0.3 774 0.3 Pregnancy with abortive outcome (O00-O07) 34 0.0 0.0 34 0.0 Other complications of pregnancy, childbirth and the puerperium (O10-O99) 839 0.3 0.3 739 0.2 Certain conditions originating in the perinatal period (P00-P96) 13,114 4.3 4.2 13,889 4.6 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 9,927 3.2 3.2 10,284 3.4 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 14,0 13.1 38,455 12.6 1 All other diseases (Residual) 252,241 82.2 75.8 252,706 83.1 7 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,716 38.2 37.0 121,207 39.9 3 Transport accidents (V01-V99,Y85) 39,057 12.7 12.6 42,742 14.1 1 Motor vehicle accidents (V02-V04,V09.0,V09.2,V87.9,V88.0,V88.0,V89.0,V89.2) 36,284 <td></td> <td>138</td> <td>0.0</td> <td>0.0</td> <td>133</td> <td></td> <td>0.0</td>		138	0.0	0.0	133		0.0
Pregnancy with abortive outcome (O00-O07) Other complications of pregnancy, childbirth and the puerperium (O10-O99) 839 0.3 0.3 739 0.2 Certain conditions originating in the perinatal period (P00-P96) 13,114 4.3 4.2 13,889 4.6 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 9,927 3.2 3.2 10,284 3.4 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 41.0 All other diseases (Residual) Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,176 38.2 37.0 121,207 39.9 3 Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 31.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.1,V89.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7							0.3
Other complications of pregnancy, childbirth and the puerperium (O10-O99) Certain conditions originating in the perinatal period (P00-P96) 13,114 4.3 4.2 13,889 4.6 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 41.0 13.1 38,455 12.6 11 All other diseases (Residual) 252,241 82.2 75.8 252,706 83.1 7 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,176 38.2 37.0 121,207 39.9 39,057 Transport accidents (V01-V99,Y85) Motor wehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.9,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782							0.0
Certain conditions originating in the perinatal period (P00-P96) 13,114 4.3 4.2 13,889 4.6 Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 9,927 3.2 3.2 10,284 3.4 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 14.0 13.1 38,455 12.6 1 All other diseases (Residual) 252,241 82.2 75.8 252,706 83.1 7 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,176 38.2 37.0 121,207 39.9 3 Transport accidents (V01-V99,Y85) 39,057 12.7 12.6 42,742 14.1 1 Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V99.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6	9 7						0.2
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99) 9,927 3.2 3.2 10,284 3.4 Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 14.0 13.1 38,455 12.6 1 All other diseases (Residual) 252,241 82.2 75.8 252,706 83.1 77 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,176 38.2 37.0 121,207 39.9 3 Transport accidents (V01-V99,Y85) 39,057 12.7 12.6 42,742 14.1 1 Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6							4.4
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99) 43,076 14,0 13.1 38,455 12.6 1 All other diseases (Residual) 252,241 82.2 75.8 252,706 83.1 7 Accidents (unintentional injuries) (V01-X59,Y85-Y86) 117,176 38.2 37.0 121,207 39.9 3 Transport accidents (V01-V99,Y85) 39,057 12.7 12.6 42,742 14.1 1 Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6							3.3
All other diseases (Residual) Accidents (unintentional injuries) (V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 75.8 252,706 83.1 7 39.9 12.7 12.6 42,742 14.1 1 39,831 13.1 1 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6							11.7
Accidents (unintentional injuries) (V01-X59,Y85-Y86) Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 38.2 37.0 121,207 39.9 3,782 11.8 11.7 39.831 13.1 1 0.4 0.4 0.4							76.4
Transport accidents (V01-V99,Y85) Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6							38.6
Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,							13.9
V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) 36,284 11.8 11.7 39,831 13.1 1 Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6		33,037	12.7	12.0	72,172	17.1	10.0
Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6		36 284	11 0	11 7	30 831	13 1	12.9
V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9) 991 0.3 0.3 1,146 0.4 Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6		50,204	11.0	11.7	59,051	13.1	12.8
Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85) 1,782 0.6 0.6 1,765 0.6		004	0.0	0.2	1 140	0.4	0
							0.4
Nontransport accidents (W00-X59,Y86) 78,118 25.4 24.5 78,465 25.8 2	water, an and space, and other and unspecified transform accidents and their sectional (VGC-VGC YXS)	1,782	0.6	0.0	1,700	0.6	0.6

Table 2. Deaths, death rates, and age-adjusted death rates for 113 selected causes, Injury by firearms, Drug-induced deaths, Alcohol-induced deaths, Injury at work, and Enterocolitis due to Clostridium difficile: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records received from the states. Rates per 100,000 population. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." For explanation of asterisks (*) preceding cause-of-death codes; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

	2009			2008		
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate	Age- adjusted rate	Number	Rate	Age- adjusted rate
Falls (W00-W19)	24,834	8.1	7.5	24,062	7.9	7.
Accidental discharge of firearms (W32-W34)	588	0.2	0.2	587	0.2	0.
Accidental drowning and submersion (W65-W74)	3,539	1.2	1.1	3,549	1.2	1.
Accidental exposure to smoke, fire and flames (X00-X09)	2,751	0.9	0.8	2,907	1.0	0.
Accidental poisoning and exposure to noxious substances (X40-X49)	30,504	9.9	9.9	30,306	10.0	9.
Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)	15,902	5.2	4.9	17,054	5.6	5.
Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	36,547	11.9	11.7	35,933	11.8	11.
Intentional self-harm (suicide) by discharge of firearms (X72-X74)	18,689	6.1	5.9	18,251	6.0	5.
Intentional self-harm (suicide) by other and unspecified means and their sequelae (*U03,X60-X71,X75-X84,Y87.0)	17.859	5.8	5.8	17,681	5.8	5.
Assault (homicide) (*U01-*U02, X85-Y09, Y87.1)	16,591	5.4	5.5	17.837	5.9	5.
Assault (homicide) by discharge of firearms (*U01.4, X93-X95)	11,406	3.7	3.8	12,209	4.0	4.
Assault (homicide) by other and unspecified means and their sequelae		4.7	4.7		4.0	
(*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1) Legal intervention (Y35,Y89.0)	5,185 372	1.7 0.1	1.7 0.1	5,628 380	1.9 0.1	1.
Events of undetermined intent (Y10-Y34,Y87.2,Y89.9)	4,730	1.5	1.5	4,979	1.6	1.
Discharge of firearms, undetermined intent (Y22-Y24)	230	0.1	0.1	276	0.1	0.
Other and unspecified events of undetermined intent (122-124)	4,500	1.5	1.5	4,703	1.5	1.
Operations of war and their sequelae (Y36,Y89.1)	25	0.0	0.0	31	0.0	0.
Complications of medical and surgical care (Y40-Y84,Y88)	2.0	0.0	0.0	2,602	0.9	0.
complications of medical and surgical care (140 104, 100)	2,550	0.8	0.8	2,002	0.0	0.
Injury by firearms (*U01.4,W32-W34,X72-X74,X93-X95,Y22-Y24,Y35.0) ³	31,228	10.2	10.0	31,651	10.4	10.
Drug-induced deaths (D52.1,D59.0,D59.2,D61.1,D64.2,E06.4,E16.0,E23.1,E24.2,E27.3,E66.1,F11.0-F11.5,F11.7-F11.9,F12.0-F12.5,F12.7-F12.9,F13.0-F13.5,F13.7-F13.9,F14.0-F14.5,F14.7-F14.9,F15.0-F15.5,F15.7-F15.9,F16.0-F16.5,F16.7-F16.9,F17.0,F17.3-F17.5,F17.7-F17.9,F18.0-F18.5,F18.7-18.9,						
F19.0-F19.5,F19.7-F19.9,G21.1,G24.0,G25.1,G25.4,G25.6,G44.4,G62.0,G72.0,I95.2,J70.2-J70.4, K85.3,L10.5,L27.0-L27.1,M10.2,M32.0,M80.4,M81.4,M83.5,M87.1,R50.2,R78.1-R78.5,X40-X44,						
X60-X64,X85,Y10-14) ³	37,485	12.2	12.1	37,777	12.4	12.
Alcohol-induced deaths (E24.4,F10,G31.2,G62.1,G72.1,I42.6,K29.2,K70,K85.2,K86.0,R78.0,X45,X65,Y15) ³	24,263	7.9	7.3	24,081	7.9	7.
Injury at work ⁴	4,108	1.7	1.7	4,689	1.9	1.
Enterocolitis due to Clostridium difficile (A04.7) ⁵	7,285	2.4	2.2	7,483	2.5	2.
0.0 Quantity more than zero but less than 0.05.						
" Figure does not meet standards of reliability or precision; see "Technical Notes."						
- Quantity zero.						
Expanded ICD-10 code A09 (Diarrhea and gastroenteritis of infectious origin) was added to the category in 2009; see "Technical N	lotes."					
Expanded ICD-10 code J09 (Influenza due to certain identified influenza virus) was added to the category in 2009; see "Technical						
Included in selected categories above.						
Injury at w ork is described in "Technical Notes."						
Included in "Certain other intestinal infections (A04,A07-A09)" shown above; see "Technical Notes."						

NOTES: For certain causes of death such as unintentional injuries, homicides, suicides, and respiratory diseases, preliminary and final data differ because of the truncated nature of the preliminary file. Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes."

Table 3. Deaths, death rates, and age-adjusted death rates: United States, and each state and territory, preliminary 2008 and 2009

[By place of residence. Data are based on a continuous file of records received from the states. Rates are per 100,000 population. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

		2009	Age-adjusted		2008	Age-adjusted
Area	Number	Rate	rate	Number	Rate	rate
United States ¹	2,436,652	793.7	740.9	2,473,018	813.3	758.7
Alabama	47,428	1,007.2	920.3	47,712	1,023.4	930.3
Alaska	3,616	517.7	754.3	3,483	507.5	739.6
Arizona	45,839	695.0	652.9	45,610	701.7	650.6
Arkansas	28,669	992.2	874.4	29,310	1,026.5	899.2
California	232,767	629.8	652.2	234,229	637.2	658.8
Colorado	31,170	620.3	688.0	31,256	632.8	708.6
Connecticut	28,513	810.4	682.3	28,797	822.5	691.4
Delaware	7,535	851.3	753.6	7,623	873.1	780.8
District of Columbia	4,761	794.0	801.5	5,139	868.3	849.9
Florida	169,843	916.2	673.4	170,668	931.2	679.0
Georgia ²				69,942	722.1	835.4
Hawaii	9,916	765.6	619.8	9,475	735.5	589.0
Idaho	11,097	717.9	721.2	10,942	718.1	721.7
Illinois	99,994	774.5	743.0	103,615	803.1	772.0
Indiana	55,956	871.2	815.5	56,743	889.8	835.1
lowa	27,553	916.0	724.8	28,533	950.3	744.0
Kansas	24,014	851.9	759.9	24,969	891.1	784.7
Kentucky	41,350	958.5	897.8	41,280	966.9	901.2
Louisiana	40,246	895.9	887.5	41,217	934.5	922.0
Maine	12,575	953.9	755.9	12,531	951.9	764.1
Maryland	43,907	770.4	763.8	43,885	779.0	771.6
•	52,375	770.4	681.0	53,521	823.7	705.9
Massachusetts						
Michigan	86,472	867.3	786.1	88,418	883.9	811.7
Minnesota	37,845	718.6	651.7	38,487	737.2	675.2
Mississippi	28,282	958.1	926.3	28,980	986.2	950.0
Missouri	54,251	906.1	804.4	56,566	956.9	847.0
Montana	8,723	894.7	757.3	8,903	920.3	785.9
Nebraska	14,811	824.4	716.1	15,455	866.6	741.1
Nevada ³	19,224	727.3	786.3	20,790	799.6	868.2
New Hampshire	10,088	761.6	676.5	10,268	780.4	712.5
New Jersey	68,277	784.1	694.8	69,993	806.1	716.8
New Mexico	15,662	779.3	740.3	15,996	806.1	758.2
New York	146,161	748.0	665.5	148,660	762.7	675.8
North Carolina	77,121	822.1	800.7	77,277	837.9	825.6
North Dakota	5,915	914.4	719.3	5,870	915.1	713.0
Ohio	107,156	928.3	813.5	109,749	955.5	844.0
Oklahoma	35,598	965.5	890.5	37,061	1,017.5	932.2
Oregon	31,635	826.9	733.1	31,939	842.7	747.9
Pennsylvania	124,813	990.2	771.0	127,450	1,023.8	796.5
Rhode Island	9,387	891.3	716.8	9,740	926.9	749.6
South Carolina	40,313	883.8	815.2	40,305	899.7	839.7
South Dakota	6,922	852.1	689.1	7,080	880.4	708.4
Tennessee	58,301	926.0	867.4	58,882	947.4	889.7
Texas	163,266	658.8	754.4	165,197	679.1	777.3
Utah	14,141	507.8	658.8	13,991	511.3	656.9
Vermont	5,029	808.8	680.9	5,213	839.1	722.2
Virginia	58,660	744.2	749.4	59,093	760.6	762.6
Washington	48,263	724.2	709.7	48,603	742.1	702.0
			949.6	21,549		958.1
West Virginia Wisconsin	21,381 45,691	1,174.9 808.0	708.8	46,799	1,187.6	729.7
Wyoming	45,691	787.1	708.8	46,799	831.5 792.6	772.5

Table 3. Deaths, death rates, and age-adjusted death rates: United States, and each state and territory, preliminary 2008 and 2009

[By place of residence. Data are based on a continuous file of records received from the states. Rates are per 100,000 population. Age-adjusted rates are per 100,000 U.S. standard population; see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals]

		2009				
			Age-adjusted			Age-adjusted
Area	Number	Rate	rate	Number	Rate	rate
Puerto Rico	28,874	727.8	683.6	28,781	727.9	700.4
Virgin Islands				699	636.4	682.9
Guam				762	433.0	683.1
American Samoa	310	472.4	1,216.9	241	371.8	958.9
Northern Marianas	194	376.8	901.7	175	316.8	833.0
Data and supilable						

Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas.

NOTE: Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes."

²Georgia data are not shown separately but are included in the U.S. total because the percent completeness did not meet the criterion of at least 75 percent of the state's demographic file for the 12-month period; see "Technical Notes."

³For 2008, data for Nevada are based on the state of occurrence due to the lack of geographic code for the state, see "Technical Notes."

Table 4. Infant deaths and infant mortality rates, by age, race and Hispanic origin: United States, preliminary 2008 and 2009

[Data are based on the continuous file of records received from the states. Rates per 1,000 live births. Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals. Race and Hispanic origin are reported separately on both the birth and death certificate. Rates for Hispanic origin should be interpreted with caution because of the inconsistencies between reporting Hispanic origin on birth and death certificates; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported for deaths by 34 states and the District of Columbia in 2009 and 2008, and were reported for births, by 32 states and the District of Columbia in 2009 and by 30 states in 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes"]

	-	2008		
Number	Rate	Number	Rate	
26,531	6.42	28,033	6.59	
17,298	4.19	18,154	4.27	
9,233	2.24	9,879	2.32	
16,897	5.32	18,162	5.54	
11,083	3.49	11,820	3.61	
5,814	1.83	6,343	1.94	
11,658	5.27	12,545	5.52	
7,595	3.43	8,022	3.53	
4,063	1.84	4,522	1.99	
8,356	12.71	8,513	12.68	
5,393	8.20	5,483	8.17	
2,964	4.51	3,030	4.51	
5,436	5.44	5,891	5.67	
3,619	3.62	3,959	3.81	
1,817	1.82	1,932	1.86	
	26,531 17,298 9,233 16,897 11,083 5,814 11,658 7,595 4,063 8,356 5,393 2,964 5,436 3,619	26,531 6.42 17,298 4.19 9,233 2.24 16,897 5.32 11,083 3.49 5,814 1.83 11,658 5.27 7,595 3.43 4,063 1.84 8,356 12.71 5,393 8.20 2,964 4.51 5,436 5.44 3,619 3.62	26,531 6.42 28,033 17,298 4.19 18,154 9,233 2.24 9,879 16,897 5.32 18,162 11,083 3.49 11,820 5,814 1.83 6,343 11,658 5.27 12,545 7,595 3.43 8,022 4,063 1.84 4,522 8,356 12.71 8,513 5,393 8.20 5,483 2,964 4.51 3,030 5,436 5.44 5,891 3,619 3.62 3,959	

¹ Includes races other than white and black.

NOTES: Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes." Although the infant mortality rate is the preferred indicator of the risk of dying during the first year of life, another measure of infant mortality, the infant death rate, is shown elsewhere in this report. The two measures typically are similar, yet they can differ because the denominators used for these measures are different. For more information on these measures of risk, see section "Infant mortality" in the "Technical Notes."

² Includes all persons of Hispanic origin of any race; see "Technical Notes."

Table 5. Infant deaths and infant mortality rates for 130 selected causes: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records from the states. Rates per 100,000 live births. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Cause of death (Based on the International	200	19	2008		
Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate	Number	Rate	
All causes	26,526	642.1	28,029	659.3	
Certain infectious and parasitic diseases (A00-B99) ¹	735	17.8	485	11.4	
Certain intestinal infectious diseases (A00-A08)	11	*	12	*	
Diarrhea and gastroenteritis of infectious origin (A09) ¹	328	7.9	-	*	
Tuberculosis (A16-A19)	1	*	-	*	
Tetanus (A33,A35)	-	*	-	*	
Diphtheria (A36)	-	*	-	*	
Whooping cough (A37)	15	*	18	*	
Meningococcal infection (A39) Septicemia (A40-A41)	10		9	*	
Congenital syphilis (A50)	234	5.7	293	6.9	
Gonococcal infection (A54)	-	*	-	*	
Viral diseases (A80-B34)	98	2.4	102	2.4	
Acute poliomyelitis (A80)	-	*	-	*	
Varicella (chickenpox) (B01)	-	*	-	*	
Measles (B05)	-	*	-	*	
Human immunodeficiency virus (HIV) disease (B20-B24)	1	*	-	*	
Mumps (B26)	-	*	-	*	
Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)	97	2.3	102	2.4	
Candidiasis (B37)	8	*	7	*	
Malaria (B50-B54) Pneumocystosis (B59)	- 1	*	3	*	
All other and unspecified infectious and parasitic diseases			3		
(A20-A32,A38,A42-A49,A51-A53,A55-A79,B35-B36,B38-B49,B55-B58,B60-B99)	27	0.7	40	0.9	
Neoplasms (C00-D48)	148	3.6	128	3.0	
Malignant neoplasms (C00-C97)	87	2.1	68	1.6	
Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)	-	*	1	*	
Leukemia (C91-C95)	28	0.7	27	0.6	
Other and unspecified malignant neoplasms (C00-C80,C88,C90,C96-C97)	60	1.5	39	0.9	
In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48) Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism	61	1.5	60	1.4	
(D50-D89) Anemias (D50-D64)	89 12	Z.Z	81 15	1.9	
Hemorrhagic conditions and other diseases of blood and blood-forming organs (D65-D76)	62	1.5	56	1.3	
Certain disorders involving the immune mechanism (D80-D89)	14	*	9	*	
Endocrine, nutritional and metabolic diseases (E00-E88)	209	5.1	247	5.8	
Short stature, not elsewhere classified (E34.3)	3	*	9	*	
Nutritional deficiencies (E40-E64)	3	*	9	*	
Cystic fibrosis (E84)	7	*	4	*	
Volume depletion, disorders of fluid, electrolyte and acid-base balance (E86-E87)	45	1.1	80	1.9	
All other endocrine, nutritional and metabolic diseases	454	0.7	4.45	0.4	
(E00-E32,E34.0-E34.2,E34.4-E34.9,E65-E83,E85,E88)	151	3.7	145	3.4	
Diseases of the nervous system (G00-G98) Meningitis (G00,G03)	340 59	8.2 1.4	414 67	9.7 1.6	
Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)	13	*	5	*	
Infantile cerebral palsy (G80)	7	*	8	*	
Anoxic brain damage, not elsewhere classified (G93.1)	38	0.9	51	1.2	
Other diseases of nervous system					
(G04,G06-G11,G12.1-G12.9,G20-G72,G81-G92,G93.0,G93.2-G93.9,G95-G98)	223	5.4	283	6.7	
Diseases of the ear and mastoid process (H60-H93)	2	*	6	*	
Diseases of the circulatory system (100-199)	565	13.7	590	13.9	
Pulmonary heart disease and diseases of pulmonary circulation (I26-I28)	105	2.5	88	2.1	
Pericarditis, endocarditis and myocarditis (I30,I33,I40)	16		19	2.7	
Cardiomyopathy (I42) Cardiac arrest (I46)	110 27	2.7 0.7	114 25	2.7 0.6	
Cerebrovascular diseases (I60-I69)	129	3.1	144	3.4	
All other diseases of circulatory system (I00-I25,I31,I34-I38,I44-I45,I47-I51,I70-I99)	177	4.3	201	4.7	
Diseases of the respiratory system (J00-J98,U04) ²	584	14.1	578	13.6	
Acute upper respiratory infections (J00-J06)	10	*	12	*	
Influenza and pneumonia (J09-J18) ²	238	5.8	225	5.3	
Influenza (J09-J11) ²	28	0.7	16	*	
Pneumonia (J12-J18)	210	5.1	208	4.9	
Acute bronchitis and acute bronchiolitis (J20-J21)	46	1.1	43	1.0	
Bronchitis, chronic and unspecified (J40-J42)	13	*	22	0.5	

Table 5. Infant deaths and infant mortality rates for 130 selected causes: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records from the states. Rates per 100,000 live births. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Cause of death (Based on the International	2009	9	200	В
Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate	Number	Rate
Other and unspecified diseases of respiratory system (J22,J30-J39,J43-J44,J47-J68,J70-J98,U04)	267	6.5	260	6.1
Diseases of the digestive system (K00-K92)	229	5.5	578	13.6
Gastritis, duodenitis, and noninfective enteritis and colitis (K29,K50-K55)	33	0.8	355	8.4
Hernia of abdominal cavity and intestinal obstruction without hernia (K40-K46,K56)	50	1.2	47	1.1
All other and unspecified diseases of digestive system (K00-K28,K30-K38,K57-K92)	147	3.6	175	4.1
Diseases of the genitourinary system (N00-N95)	124	3.0	172	4.0
Renal failure and other disorders of kidney (N17-N19,N25,N27)	103	2.5	140	3.3
Other and unspecified diseases of genitourinary system (N00-N15,N20-N23,N26,N28-N95)	21	0.5	32	8.0
Certain conditions originating in the perinatal period (P00-P96)	12,981	314.2	13,738	323.2
Newborn affected by maternal factors and by complications of pregnancy, labor and delivery (P00-P04)	2,914	70.5	3,153	74.2
Newborn affected by maternal hypertensive disorders (P00.0) Newborn affected by other maternal conditions which may be unrelated to present pregnancy	90	2.0	84	2.0
(P00.1-P00.9) Newborn affected by maternal complications of pregnancy (P01)	1,586	38.4	1,764	2.1 41.5
Newborn affected by incompetent cervix (P01.0)	423	10.2	447	10.5
Newborn affected by premature rupture of membranes (P01.1)	778	18.8	840	19.8
Newborn affected by multiple pregnancy (P01.5)	198	4.8	257	6.0
Newborn affected by other maternal complications of pregnancy (P01.2-P01.4,P01.6-P01.9)	187	4.5	220	5.2
Newborn affected by complications of placenta, cord and membranes (P02)	1,022	24.7	1,073	25.2
Newborn affected by complications involving placenta (P02.0-P02.3)	498	12.1	531	12.5
Newborn affected by complications involving placerita (r 02.04-02.5)	490	1.0	55	1.3
Newborn affected by chorioamnionitis (P02.7)	483	11.7	486	11.4
Newborn affected by other and unspecified abnormalities of membranes (P02.8-P02.9)	1	*	1	*
Newborn affected by other complications of labor and delivery (P03)	109	2.6	95	2.2
Newborn affected by noxious influences transmitted via placenta or breast milk (P04)	26	0.6	48	1.1
Disorders related to length of gestation and fetal malnutrition (P05-P08)	4,568	110.6	4,816	113.3
Slow fetal growth and fetal malnutrition (P05)	106	2.6	83	2.0
Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	4,463	108.0	4,733	111.3
Extremely low birth weight or extreme immaturity (P07.0,P07.2)	3,399	82.3	3,636	85.5
Other low birth weight or preterm (P07.1,P07.3)	1,064	25.8	1,097	25.8
Disorders related to long gestation and high birth weight (P08)	-	*	-	*
Birth trauma (P10-P15)	17	*	18	*
Intrauterine hypoxia and birth asphyxia (P20-P21)	342	8.3	382	9.0
Intrauterine hypoxia (P20)	139	3.4	144	3.4
Birth asphyxia (P21)	203	4.9	238	5.6
Respiratory distress of newborn (P22)	587	14.2	625	14.7
Other respiratory conditions originating in the perinatal period (P23-P28)	964	23.3	1,102	25.9
Congenital pneumonia (P23)	101	2.4	74	1.7
Neonatal aspiration syndromes (P24)	40	1.0	58	1.4
Interstitial emphysema and related conditions originating in the perinatal period (P25)	113	2.7	121	2.8
Pulmonary hemorrhage originating in the perinatal period (P26)	162	3.9	199	4.7
Chronic respiratory disease originating in the perinatal period (P27)	180	4.4	239	5.6
Atelectasis (P28.0-P28.1)	297	7.2	334	7.9
All other respiratory conditions originating in the perinatal period (P28.2-P28.9)	72	1.7	77	1.8
Infections specific to the perinatal period (P35-P39) Bacterial sepsis of newborn (P36)	858 682	20.8	896	21.1
	4	16.5	696	16.4
Omphalitis of newborn with or without mild hemorrhage (P38) All other infections specific to the perinatal period (P35,P37,P39)	172	4.2	198	4.7
Hemorrhagic and hematological disorders of newborn (P50-P61)	644	15.6	642	15.1
Neonatal hemorrhage (P50-P52, P54)	537	13.0	551	13.1
Hemorrhagic disease of newborn (P53)	1	13.0	2	*
Hemolytic disease of newborn due to isoimmunization and other perinatal jaundice (P55-P59)	14	*	10	*
Hematological disorders (P60-P61)	91	2.2	78	1.8
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus (P70.0-P70.2)	11	*	11	*
Necrotizing enterocolitis of newborn (P77)	505	12.2	547	12.9
Hydrops fetalis not due to hemolytic disease (P83.2)	185	4.5	170	4.0
Other perinatal conditions (P29,P70.3-P76,P78-P81,P83.0-P83.1,P83.3-P96)	1,385	33.5	1,375	32.3
Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	5,358	129.7	5,647	132.8
Anencephaly and similar malformations (Q00)	318	7.7	340	8.0
Congenital hydrocephalus (Q03)	114	2.8	104	2.4
Spina bifida (Q05)	21	0.5	22	0.5
Other congenital malformations of nervous system (Q01-Q02,Q04,Q06-Q07)	321	7.8	356	8.4
Congenital malformations of heart (Q20-Q24)	1,232	29.8	1,307	30.7
Other congenital malformations of circulatory system (Q25-Q28)	181	4.4	219	5.2
Congenital malformations of respiratory system (Q30-Q34)	387	9.4	378	8.9

Table 5. Infant deaths and infant mortality rates for 130 selected causes: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records from the states. Rates per 100,000 live births. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Cause of death (Based on the International	200	9	200	8
Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate	Number	Rate
Congenital malformations of digestive system (Q35-Q45)	66	1.6	85	2.0
Congenital malformations of genitourinary system (Q50-Q64)	488	11.8	516	12.1
Congenital malformations and deformations of musculoskeletal system, limbs and integument (Q65-Q85)	583	14.1	665	15.6
Down's syndrome (Q90)	80	1.9	87	2.0
Edward's syndrome (Q91.0-Q91.3)	530	12.8	556	13.1
Patau's syndrome (Q91.4-Q91.7)	247	6.0	278	6.5
Other congenital malformations and deformations (Q10-Q18,Q86-Q89)	575	13.9	535	12.6
Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)	214	5.2	200	4.7
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	3,510	85.0	3,582	84.3
Sudden infant death syndrome (R95)	2,168	52.5	2,292	53.9
Other symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R53,R55-R94,R96-R99)	1,342	32.5	1,290	30.3
All other diseases (Residual)	31	0.8	34	0.8
External causes of mortality (*U01,V01-Y84)	1,620	39.2	1,750	41.2
Accidents (unintentional injuries) (V01-X59)	1,158	28.0	1,299	30.6
Transport accidents (V01-V99)	108	2.6	105	2.5
Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79,V80.3-V80.5, V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	106	2.6	104	2.4
Other and unspecified transport accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V11,V15-V18,V19.3, V19.8-V19.9,V80.0-V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9,V90-V99)	2	*	1	1
Falls (W00-W19)	28	0.7	19	,
Accidental discharge of firearms (W32-W34)	-	*	-	,
Accidental drowning and submersion (W65-W74)	41	1.0	37	0.9
Accidental suffocation and strangulation in bed (W75)	638	15.4	730	17.2
Other accidental suffocation and strangulation (W76-W77,W81-W84)	192	4.6	249	5.9
Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)	51	1.2	60	1.4
Accidents caused by exposure to smoke, fire and flames (X00-X09)	24	0.6	19	1
Accidental poisoning and exposure to noxious substances (X40-X49)	12	*	11	1
Other and unspecified accidents (W20-W31,W35-W64,W85-W99,X10-X39,X50-X59)	64	1.5	67	1.6
Assault (homicide) (*U01, X85-Y09)	327	7.9	337	7.9
Assault (homicide) by hanging, strangulation and suffocation (X91)	23	0.6	31	0.7
Assault (homicide) by discharge of firearms (*U01.4.X93-X95)	24	0.6	8	,
Neglect, abandonment and other maltreatment syndromes (Y06-Y07)	88	2.1	99	2.3
Assault (homicide) by other and unspecified means				
(*U01.0-*U01.3,*U01.5-*U01.9,X85-X90,X92,X96-X99,Y00-Y05,Y08-Y09)	192	4.6	199	4.7
Complications of medical and surgical care (Y40-Y84)	18	*	23	0.5
Other external causes (Y10-Y36)	117	2.8	91	2.1
* Figure does not meet standards of reliability or precision; see *Technical Notes."				
- Quantity zero.				
Expanded ICD-10 code A09 (Diarrhea and gastroenteritis of infectious origin) was added to the category in 2009; see "Technical Notes."				
² Expanded ICD-10 code J09 (Influenza due to certain identified influenza virus) was added to the category in 2009; see "Technical Notes."				

NOTES: For certain causes of death such as unintentional injuries, homicides, suicides, and respiratory diseases, preliminary and final data differ because of the truncated nature of the preliminary file. Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes." Although the infant mortality rate is the preferred indicator of the risk of dying during the first year of life, another measure of infant mortality, the infant death rate, is shown elsewhere in this report. The two measures typically are similar, yet they can differ because the denominators used for these measures are different. For more information on these measures of risk, see section "Infant mortality" in the "Technical Notes."

Table 6. Expectation of life by age, race, and sex: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records from the states. Calculations of life expectancy employ populations estimated as of July 1 for 2009 and 2008; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes"]

	Both	sexes	Ma	ale	Fen	nale
Age (years) and race	2009	2008 ¹	2009	2008 ¹	2009	2008 ¹
All races ²						
All faces						
	78.2	78.0	75.7	75.5	80.6	80.5
	77.7	77.6	75.3	75.1	80.0	80.0
5	73.8	73.7	71.4	71.2	76.1	76.1
10	68.8	68.7	66.4	66.2	71.2	71.1
15	63.9	63.8	61.5	61.3	66.2	66.1
20	59.0	58.9	56.7	56.5	61.3	61.2
25	54.3	54.2	52.0	51.9	56.4	56.4
30	49.5	49.4	47.3	47.2	51.6	51.5
35	44.8	44.7	42.7	42.6	46.8	46.7
10	40.1	40.0	38.0	37.9	42.0	41.9
45	35.5	35.4	33.5	33.4	37.3	37.2
50	31.1	31.0	29.1	29.0	32.8	32.7
55	26.8	26.7	25.0	24.9	28.4	28.3
60	22.7	22.6	21.1	20.9	24.1	24.0
65	18.8	18.7	17.3	17.2	20.0	19.9
70	15.1	15.0	13.8	13.7	16.1	16.0
75	11.7	11.7	10.7	10.6	12.5	12.5
30	8.8	8.8	8.0	7.9	9.4	9.4
35	6.4	6.5	5.8	5.8	6.8	6.8
90	4.6	4.6	4.1	4.1	4.8	4.8
95	3.2	3.2	2.9	2.9	3.3	3.3
100	2.2	2.3	2.0	2.1	2.2	2.3
White						
)	78.6	78.4	76.2	75.9	80.9	80.8
	78.0	77.8	75.6	75.4	80.3	80.2
5	74.1	73.9	71.7	71.5	76.3	76.3
10	69.1	68.9	66.8	66.5	71.4	71.3
15	64.1	64.0	61.8	61.6	66.4	66.3
20	59.3	59.2	57.0	56.8	61.5	61.4
25	54.5	54.4	52.3	52.2	56.6	56.6
30	49.8	49.6	47.6	47.5	51.8	51.7
35	45.0	44.9	43.0	42.8	47.0	46.9
10	40.3	40.2	38.3	38.1	42.2	42.1
15	35.7	35.6	33.8	33.6	37.5	37.4
50	31.2	31.1	29.4	29.2	32.9	32.8
55	26.9	26.8	25.2	25.0	28.5	28.3
60	22.8	22.6	21.2	21.0	24.1	24.0
65	18.8	18.7	17.4	17.3	20.0	19.9
70	15.1	15.0	13.9	13.7	16.1	16.0
75	11.7	11.6	10.6	10.6	12.5	12.4
30	8.8	8.8	7.9	7.9	9.3	9.3
35	6.4	6.4	5.7	5.7	6.7	6.8
90	4.5	4.5	4.1	4.1	4.7	4.8
95	3.1	3.2	2.8	2.9	3.2	3.3
100	2.2	2.2	2.0	2.0	2.2	2.2

Table 6. Expectation of life by age, race, and sex: United States, preliminary 2008 and 2009

[Data are based on a continuous file of records from the states. Calculations of life expectancy employ populations estimated as of July 1 for 2009 and 2008; see "Technical Notes." Race categories are consistent with the 1977 Office of Management and Budget (OMB) standards. Multiple-race data were reported by 34 states and the District of Columbia in 2009 and 2008; see "Technical Notes." The multiple-race data for these states were bridged to the single-race categories of the 1977 OMB standards for comparability with other states; see "Technical Notes"]

	Both	sexes	Ma	ale	Female		
Age (years) and race	2009	2008 ¹	2009	2008 ¹	2009	2008 ¹	
Black							
	74.3	74.3	70.9	70.9	77.4	77.4	
	74.2	74.3	70.9	71.0	77.2	77.4	
	70.3	70.5	67.0	67.1	73.3	73.5	
0	65.4	65.5	62.1	62.2	68.4	68.5	
5	60.5	60.6	57.1	57.2	63.5	63.6	
0	55.7	55.8	52.4	52.6	58.6	58.7	
5	51.0	51.1	47.9	48.0	53.7	53.9	
0	46.3	46.5	43.3	43.5	49.0	49.1	
5	41.7	41.8	38.8	39.0	44.2	44.3	
0	37.1	37.3	34.3	34.5	39.6	39.6	
5	32.7	32.8	30.0	30.1	35.0	35.1	
0	28.5	28.6	25.8	26.0	30.7	30.8	
5	24.5	24.6	22.0	22.2	26.6	26.7	
0	20.9	20.9	18.6	18.7	22.7	22.7	
5	17.5	17.5	15.5	15.5	18.9	18.9	
0	14.3	14.3	12.6	12.6	15.4	15.4	
5	11.3	11.3	9.9	10.0	12.2	12.2	
0	8.8	8.8	7.7	7.8	9.4	9.5	
5	6.7	6.8	5.9	6.0	7.1	7.1	
0	5.0	5.1	4.4	4.6	5.2	5.3	
5	3.7	3.8	3.3	3.5	3.8	3.8	
00	2.7	2.8	2.5	2.6	2.7	2.8	

² Includes races other than white and black.

NOTE: Data are subject to sampling or random variation.

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population in specified group. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Rank ¹	Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004) and age	Number	Rate
	All ages ²		
	All causes	2,436,652	793.7
1	Diseases of heart (I00-I09,I11,I13,I20-I51)	598,607	195.0
2	Malignant neoplasms (C00-C97)	568,668	185.2
3	Chronic lower respiratory diseases (J40-J47)	137,082	44.7
4	Cerebrovascular diseases (I60-I69)	128,603	41.9
5	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	117,176	38.2
	Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2,V19.4-V19.6,V20-V79, V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	36,284	11.8
	All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3, V19.8-V19.9, V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1, V89.3,V89.9,V90-V99,W00-X59,Y85-Y86)	80,892	26.3
6	Alzheimer's disease (G30)	78,889	25.
7	Diabetes mellitus (E10-E14)	68,504	22.
8	Influenza and pneumonia (J09-J18) ³	53,582	17.
9	Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	48,714	15.
10	Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	36,547	11.
	All other causes (Residual)	600,280	195.
	1-4 years		
	All causes	4,448	26.
1	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	1,446	8.
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,	400	
	V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2) All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3,	462	2.
	V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1, V89.3, V89.9, V90-V99, W00-X59, Y85-Y86)	984	5.
2	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	485	2.
3	Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	385	2.
4	Malignant neoplasms (C00-C97)	349	2.
5	Diseases of heart (I00-I09,I11,I13,I20-I51)	154	0.
6	Influenza and pneumonia (J09-J18) ³	132	0.
7	Septicemia (A40-A41)	70	0.
8	Chronic lower respiratory diseases (J40-J47)	60	0.
9	Certain conditions originating in the perinatal period (P00-P96)	58	0.
10	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	51	0.
	All other causes (Residual)	1,258	7.

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population in specified group. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Rank ¹	Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004) and age	Number	Rate
	5-14 years		
	All causes	5,628	13.9
1	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	1,667	4.1
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,		
	V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	950	2.3
	All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3,		
	V19.8-V19.9, V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,		
	V89.3,V89.9,V90-V99,W00-X59,Y85-Y86)	717	1.8
2	Malignant neoplasms (C00-C97)	893	2.2
3	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	350	0.9
4	Assault (homicide) (*U01-*U02, X85-Y09, Y87.1)	319	0.8
5	Intentional self harm (suicide) (*U03,X60-X84,Y87.0)	266	0.7
6	Influenza and pneumonia (J09-J18) ³	230	0.6
7	Diseases of heart (100-109,111,113,120-151)	200	0.5
8	Chronic lower respiratory diseases (J40-J47)	116	0.3
9	In situ neoplasms, benign neoplasms and neoplasms of uncertain or unknown behavior (D00-D48)	84	0.2
10	Cerebrovascular diseases (I60-I69)	69	0.2
	All other causes (Residual)	1,434	3.5
	15-24 years		
	All causes	30,252	70.2
1	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	12,351	28.7
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,		
	V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)	7,648	17.8
	All other accidents (V01, V05-V06, V09.1, V09.3-V09.9, V10-V12, V15-V18, V19.3,		
	V19.8-V19.9, V80.0-V80.2, V80.6-V80.9, V81.2-V81.9, V82.2-V82.9, V87.9, V88.9, V89.1,		
	V89.3,V89.9,V90-V99,W00-X59,Y85-Y86)	4,703	10.9
2	Assault (homicide) (*U01-*U02, X85-Y09, Y87.1)	4,820	11.2
3	Intentional self harm (suicide) (*U03,X60-X84,Y87.0)	4,341	10.1
4	Malignant neoplasms (C00-C97)	1,659	3.9
5	Diseases of heart (I00-I09,I11,I13,I20-I51)	1,010	2.3
6	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	451	1.0
7	Influenza and pneumonia (J09-J18) ³	410	1.0
8	Pregnancy, childbirth and the puerperium (O00-O99)	202	0.5
9	Cerebrovascular diseases (I60-I69)	198	0.5
10	Chronic lower respiratory diseases (J40-J47)	182	0.4
	All other causes (Residual)	4,628	10.7

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population in specified group. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Rank ¹	Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004) and age	Number	Rate
	25-44 years		
	All causes	116,830	140.6
1	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	28,844	34.7
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,	-,-	
	V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	11,033	13.3
	All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3,	· ·	
	V19.8-V19.9, V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,		
	V89.3, V89.9, V90-V99, W00-X59, Y85-Y86)	17,811	21.4
2	Malignant neoplasms (C00-C97)	16,236	19.5
3	Diseases of heart (100-109,111,113,120-151)	14,053	16.9
4	Intentional self harm (suicide) (*U03,X60-X84,Y87.0)	11,871	14.3
5	Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	6,883	8.3
6	Human immunodeficiency virus (HIV) disease (B20-B24)	3,326	4.0
7	Chronic liver disease and cirrhosis (K70,K73-K74)	2,931	3.5
8	Cerebrovascular diseases (I60-I69)	2,432	2.9
9	Diabetes mellitus (E10-E14)	2,429	2.9
10	Influenza and pneumonia (J09-J18) ³	2,052	2.5
	All other causes (Residual)	25,773	31.0
	45-64 years		
	All causes	490,145	617.5
1	Malignant neoplasms (C00-C97)	157,544	198.5
2	Diseases of heart (100-109,111,113,120-151)	103,704	130.6
3	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	32,357	40.8
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,		
	V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2)	9,818	12.4
	All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3, V19.8-V19.9, V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1, V89.3,V89.9,V90-V99,W00-X59,Y85-Y86)	22,539	28.4
4	Chronic lower respiratory diseases (J40-J47)	18,651	23.5
5	Chronic liver disease and cirrhosis (K70,K73-K74)	17,499	22.0
6	Diabetes mellitus (E10-E14)	17,052	21.5
7	Cerebrovascular diseases (I60-I69)	16,663	21.0
8	Intentional self harm (suicide) (*U03,X60-X84,Y87.0)	14,192	17.9
9	Influenza and pneumonia (J09-J18) ³	7,069	8.9
10	Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	7,047	8.9
	All other causes (Residual)	98,367	123.9

[Data are based on a continuous file of records received from the states. Rates are per 100,000 population in specified group. For explanation of asterisks (*) preceding cause-of-death codes, see "Technical Notes." Figures are based on weighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Rank ¹	Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004) and age	Number	Rate
	65 years and over		
	All causes	1,762,494	4,454.1
1	Diseases of heart (I00-I09,I11,I13,I20-I51)	479,046	1,210.6
2	Malignant neoplasms (C00-C97)	391,855	990.3
3	J , , , ,	117,048	295.8
4	Chronic lower respiratory diseases (J40-J47) Cerebrovascular diseases (I60-I69)		295.6
-	,	109,055	
5	Alzheimer's disease (G30)	78,058	197.3
6	Diabetes mellitus (E10-E14)	48,811	123.4
7	Influenza and pneumonia (J09-J18) ³	43,433	109.8
8	Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27)	40,341	101.9
9	Accidents (unintentional injuries) (V01-X59,Y85-Y86)	39,316	99.4
	Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79,		
	V80.3-V80.5,V81.0-V81.1,V82.0-V82.1,V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	6,259	15.8
	All other accidents (V01,V05-V06,V09.1,V09.3-V09.9,V10-V12,V15-V18,V19.3,		
	V19.8-V19.9, V80.0-V80.2,V80.6-V80.9,V81.2-V81.9, V82.2-V82.9,V87.9,V88.9,V89.1,		
	V89.3,V89.9,V90-V99,W00-X59,Y85-Y86)	33,057	83.5
10	Septicemia (A40-A41)	26,810	67.8
	All other causes (Residual)	388,721	982.3
Catego	ory not applicable.		
	ised on number of deaths; see "Technical Notes."		
	seaths under 1 year of age.		
# iciuues	dedute under 1 year or age.		

⁹ Expanded ICD-10 code J09 (Influenza due to certain identified influenza virus) w as added to the category in 2009; see "Technical Notes."

NOTES: For certain causes of death such as unintentional injuries, homicides, suicides, and respiratory diseases, preliminary and final data differ because of the truncated nature of the preliminary file. Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes."

Table 8. Infant deaths and infant mortality rates for the 10 leading causes of infant death: United States, preliminary 2009

[Data are based on a continuous file of records received from the states. Rates are per 100,000 live births. Figures are based on w eighted data rounded to the nearest individual, so categories may not add to totals or subtotals]

Rank ¹	Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Number	Rate
	All causes	26,526	
1	Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)	5,358	129.7
2	Disorders related to short gestation and low birth weight, not elsewhere classified (P07)	4,463	108.0
3	Sudden infant death syndrome (R95)	2,168	52.5
4	Newborn affected by maternal complications of pregnancy (P01)	1,586	38.4
5	Accidents (unintentional injuries) (V01-X59)	1,158	28.0
6	Newborn affected by complications of placenta, cord and membranes (P02)	1,022	24.7
7	Bacterial sepsis of newborn (P36)	682	16.5
8	Respiratory distress of newborn (P22)	587	14.2
9	Diseases of the circulatory system (I00-I99)	565	13.7
10	Neonatal hemorrhage (P50-P52,P54)	537	13.0
	All other causes (Residual)	8,400	203.3
Category	not applicable.		
¹ Rank base	d on number of deaths; see "Technical Notes."		

NOTE: For certain causes of death such as unintentional injuries, homicides, suicides, and sudden infant death syndrome, preliminary and final data differ because of the truncated nature of the preliminary file. Data are subject to sampling or random variation. For information regarding the calculation of standard errors and further discussion of the variability of the data, see "Technical Notes." Although the infant mortality rate is the preferred indicator of the risk of dying during the first year of life, another measure of infant mortality, the infant death rate, is shown elsewhere in the report. The two measures typically are similar, yet they can differ because the denominators used for these measures are different.

Additional Technical Notes Tables

Table I. Total count of records and percent completeness of preliminary files of infant deaths and deaths to those aged 1 year and over: United States, each state and territory, preliminary 2009

[By place of occurrence] Infant deaths (under 1 year of age) Deaths to those aged 1 year and over Percent completeness Percent completeness Medical Count of Demographic Count of Demographic Medical Area file records file records file file United States¹ 94.3 98.5 96.5 26,610 97.4 2,414,435 Alabama 522 100.0 100.0 46.311 100.0 100.0 Alaska 67 100.0 100.0 3,500 99.9 99.9 Arizona 552 100.0 93.5 45,899 100.0 98.6 100.0 100.0 100.0 Arkansas 297 100.0 28,111 California 2,621 93.7 93.7 230,778 94.3 94.3 Colorado 456 100.0 100.0 31,135 100.0 100.0 Connecticut 210 100.0 100.0 28,402 100.0 100.0 Delaware 103 100.0 100.0 7,468 100.0 100.0 District of Columbia 197 100.0 93.9 5,802 100.0 95.3 Florida 100.0 100.0 1,542 100.0 100.0 169,764 Georgia 1,164 59.8 68,977 12.9 7.2 71.3 Hawaii 116 100.0 100.0 9,829 100.0 100.0 Idaho 116 100.0 100.0 10,821 100.0 100.0 Illinois 1,138 99.9 99.7 98.4 95,972 99.9 Indiana 662 100.0 99.7 55,889 100.0 99.7 Iowa 161 100.0 100.0 27,208 100.0 100.0 Kansas 254 100.0 100.0 22,989 100.0 100.0 Kentucky 316 99.1 98.7 40,584 100.0 99.9 Louisiana 580 100.0 100.0 99.5 99.0 39,785 Maine 72 12,408 96.4 96.1 95.8 94.4 Maryland 484 100.0 100.0 43,163 100.0 100.0 394 Massachusetts 95.9 88.6 52,716 96.0 94.1 889 84,375 100.0 100.0 Michigan 99.9 99.9 343 97.7 37,506 100.0 97.7 Minnesota 100.0 Mississippi 378 100.0 100.0 27,331 100.0 100.0 Missouri 642 100.0 100.0 55,506 100.0 100.0 Montana 63 100.0 100.0 8,674 100.0 100.0 Nebraska 156 100.0 100.0 14,919 100.0 100.0 Nevada 219 100.0 99.5 83.6 19,651 96.3 New Hampshire 100.0 100.0 100.0 100.0 58 9,936 480 100.0 100.0 100.0 New Jersey 99.8 66,535 137 15,083 100.0 New Mexico 100.0 100.0 100.0 New York 1.335 100.0 100.0 144,041 100.0 100.0 New York excluding New York City 667 100.0 100.0 91,826 100.0 100.0 New York City 668 100.0 100.0 52,215 100.0 100.0 North Carolina 1,030 100.0 99.3 76,848 100.0 100.0 North Dakota 100.0 54 100.0 6,387 100.0 99.7 Ohio 1.160 99.7 99.0 106,085 100.0 99.8 Oklahoma 419 100.0 100.0 34,242 100.0 100.0 Oregon 243 99.6 99.6 31,381 99.1 99.1 Pennsylvania 1,118 100.0 98.9 124,879 100.0 100.0 Rhode Island 88 100.0 9,520 100.0 100.0 100.0 South Carolina 412 96.4 95.4 39,268 100.0 99.0 South Dakota 87 100.0 100.0 7,053 100.0 100.0 Tennessee 744 100.0 100.0 60,377 100.0 100.0 Texas 2,437 99.9 99.9 162,991 100.0 100.0 Utah 308 100.0 100.0 14,298 100.0 100.0 Vermont 29 100.0 100.0 4,955 100.0 100.0 Virginia 694 100.0 99.7 57,285 100.0 100.0 Washington 447 100.0 100.0 47,897 100.0 100.0 Table I. Total count of records and percent completeness of preliminary files of infant deaths and deaths to those aged 1 year and over: United States, each state and territory, preliminary 2009

[By place of occurrence] Infant deaths (under 1 year of age) Deaths to those aged 1 year and over Percent completeness Percent completeness Count of Demographic Medical Count of Demographic Medical Area records file file records file file West Virginia 164 100.0 78.7 20,855 100.0 80.2 Wisconsin 100.0 100.0 45,085 100.0 100.0 427 Wyoming 100.0 100.0 100.0 25 100.0 3,962 Puerto Rico 356 96.9 96.9 28,636 96.8 96.8 Virgin Islands 8 0.0 0.0 690 0.0 0.0 Guam 36 0.0 0.0 813 0.0 0.0 American Samoa 15 100.0 100.0 298 100.0 100.0 Northern Marianas 100.0 100.0 99.0 2 100.0 194

^{0.0} Quantity more than zero but less than 0.05. ¹Excludes data for Puerto Rico, Virgin Islands, Guam, American Samoa, and Northern Marianas. NOTE: Percent completeness equals 100 times the number of records in preliminary file divided by the count of records.

or explanation of asterisk preceding cause-of-death codes, see "Technical Notes"]											
	Droliminon	Final	Ratio of	Droliminon	Final	Ratio of	Droliminon	Final	Ratio of		
	Preliminary number of	number of	preliminary	Preliminary number of	number of	preliminary	Preliminary number of	number of	preliminar		
	deaths	deaths	to final	deaths	deaths	to final	deaths	deaths	to final		
Cause of death (Based on the International Classification of Diseases,	2007	2007	2007	2006	2006	2006	2005	2005	2005		
Tenth Revision, Second Edition, 2004)	2007	2001	2007	2000	2000	2000	2003	2003	2003		
All causes	2,424,059	2,423,712	1.0001	2,425,901	2,426,264	0.9999	2,447,910	2,448,017	1.000		
Salmonella infections (A01-A02)	30	30	1.0000	33	34	0.9706	30	30	1.000		
Shigellosis and amebiasis (A03,A06)	4	4	1.0000		6		9				
Certain other intestinal infections (A04,A07-A09)	6,822	6,758	1.0095		6,639			5,667			
Tuberculosis (A16-A19)	541	554	0.9765		652			648			
Respiratory tuberculosis (A16)	410	424	0.9670		490			480			
Other tuberculosis (A17-A19)	131	130	1.0077		162			168			
Whooping cough (A37)	11	9	1.2222		9						
Scarlet fever and erysipelas (A38,A46)	3	3	1.0000		2						
Meningococcal infection (A39)	73	87	0.8391	103	105	0.9810	119	123	0.967		
Septicemia (A40-A41)	34,851	34,828	1.0007	34,031	34,234	0.9941	34,142	34,136	1.000		
Syphilis (A50-A53)	50	42	1.1905	35	38	0.9211	46	47	0.978		
Acute poliomyelitis (A80)	-	-		-	-		4	-			
Arthropod-borne viral encephalitis (A83-A84,A85.2)	2	3	0.6667	5	5	1.0000	6	6	1.000		
Measles (B05)	-	-		-	-		1	1	1.000		
Viral hepatitis (B15-B19)	7,313	7,407	0.9873	6,021	7,250	0.8305	5,524	5,529	0.999		
Human immunodeficiency virus (HIV) disease (B20-B24)	11,061	11,295	0.9793	12,045	12,113	0.9944	12,456	12,543	0.993		
Malaria (B50-B54)	4	5	0.8000	9	9	1.0000	6	6	1.000		
Other and unspecified infectious and parasitic diseases and their sequelae (A00,A05,A20-A36,A42-A44,A48-A49,A54-A79,A81-A82,											
A85.0-A85.1,A85.8,A86-B04,B06-B09,B25-B49,B55-B99)	5,774	5,825	0.9912	7,110	5,897	1.2057	7,695	7,727	0.995		
Malignant neoplasms (C00-C97)	560,187	562,875	0.9952	560,102	559,888	1.0004	559,300	559,312	1.000		
Malignant neoplasms of lip, oral cavity and pharynx (C00-C14)	7,950	8,067	0.9855	7,727	7,720	1.0009	7,775	7,773	1.000		
Malignant neoplasm of esophagus (C15)	13,488	13,592	0.9923	13,674	13,686	0.9991	13,512	13,499	1.001		
Malignant neoplasm of stomach (C16)	11,308	11,388	0.9930	11,354	11,345	1.0008	11,473	11,514	0.996		
Malignant neoplasms of colon, rectum and anus (C18-C21)	53,100	53,586	0.9909	53,465	53,549	0.9984	53,228	53,252	0.999		
Malignant neoplasms of liver and intrahepatic bile ducts (C22)	17,033	17,146	0.9934	16,447	16,525	0.9953	16,049	16,076	0.998		
Malignant neoplasm of pancreas (C25)	34,032	34,117	0.9975	33,437	33,454	0.9995	32,741	32,760	0.999		
Malignant neoplasm of larynx (C32)	3,680	3,634	1.0127	3,824	3,821	1.0008	3,790	3,797	0.998		
Malignant neoplasms of trachea, bronchus and lung (C33-C34)	158,258	158,760	0.9968	158,525	158,664	0.9991	159,415	159,292	1.000		
Malignant melanoma of skin (C43)	8,499	8,461	1.0045	8,487	8,441	1.0054	8,368	8,345	1.002		
Malignant neoplasm of breast (C50)	40,514	40,970	0.9889	41,223	41,210	1.0003	41,471	41,491	0.999		
Malignant neoplasm of cervix uteri (C53)	3,942	4,021	0.9804	3,926	3,976	0.9874	3,914	3,924	0.997		
Malignant neoplasms of corpus uteri and uterus, part unspecified (C54-C55)	7,319	7,456	0.9816	7,374	7,384	0.9986	7,070	7,096	0.996		
Malignant neoplasm of ovary (C56)	14,535	14,621	0.9941	14,906	14,857	1.0033	14,770	14,787	0.998		
Malignant neoplasm of prostate (C61)	28,823	29,093	0.9907	28,331	28,372	0.9986	28,916	28,905	1.000		
Malignant neoplasms of kidney and renal pelvis (C64-C65)	12,569	12,703	0.9895	12,376	12,379	0.9998	12,513	12,517	0.999		
Malignant neoplasm of bladder (C67)	13,827	13,843	0.9988	13,492	13,474	1.0013	13,258	13,253	1.000		
Malignant neoplasms of meninges, brain and other parts of central nervous system (C70-C72)	13,172	13,234	0.9953	12,853	12,886	0.9974	13,149	13,152	0.999		
Malignant neoplasms of lymphoid, hematopoietic and related tissue (C81-C96)	54,950	54,991	0.9993		55,045			55,028			
Hodgkin's disease (C81)	1,251	1,271	0.9993		1,327	1.0036		1,272			
Non-Hodgkin's lymphoma (C82-C85)	20,537	20,528	1.0004		20,594			20,873			
Leukemia (C91-C95)	20,537	20,528	0.9941		20,594						
Multiple myeloma and immunoproliferative neoplasms (C88,C90)	11,420	11,307	1.0100		11,111						
Other and unspecified malignant neoplasms of lymphoid,	11,420	11,307	1.0100	11,100	11,111	1.0030	11,213	11,200	1.00		

r explanation of asterisk preceding cause-of-death codes, see "Technical Notes"]											
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminar to final 2005		
All other and unspecified malignant neoplasms (C17,C23-C24,C26-C31,C37-C41,C44-C49,C51-C52,C57-C60, C62-C63,C66,C68-C69,C73-C80,C97)	63,186	63,192	0.9999	63,441	63,100	1.0054	62,865	62,851	1.00		
In situ neoplasms, benign neoplasms and neoplasms of uncertain or											
unknown behavior (D00-D48)	14,151	14,204	0.9963		14,122			13,710			
Anemias (D50-D64)	4,848	4,829	1.0039		3,996			4,624			
Diabetes mellitus (E10-E14)	70,905	71,382	0.9933		72,449			75,119			
Nutritional deficiencies (E40-E64) Malnutrition (E40-E46)	2,810 2,600	2,852 2,644	0.9853 0.9834	,	2,556 2,377		-,	3,183 3,003			
Other nutritional deficiencies (E50-E64)	2,000	2,644	1.0096		179			180			
Meningitis (G00,G03)	626	655	0.9557		634	0.9968		669			
Parkinson's disease (G20-G21)	20,136	20,058	1.0039		19,566			19,544			
Alzheimer's disease (G30)	74,944	74,632	1.0042		72,432			71,599			
Major cardiovascular diseases (I00-I78)	803,504	806,156	0.9967		823,746			856,030			
Diseases of heart (I00-I09,I11,I13,I20-I51)	615,651	616,067	0.9993		631,636		649,399	652,091			
Acute rheumatic fever and chronic rheumatic heart diseases											
(100-109)	3,188	3,201	0.9959	3,257	3,257	1.0000	3,359	3,365	0.99		
Hypertensive heart disease (I11)	30,354	30,780	0.9862	29,217	29,788	0.9808	28,902	29,282	0.98		
Hypertensive heart and renal disease (I13)	2,954	2,987	0.9890	2,919	2,918	1.0003	3,148	3,172	0.99		
Ischemic heart diseases (I20-I25)	403,741	406,351	0.9936		425,425			445,687			
Acute myocardial infarction (I21-I22)	132,841	132,968	0.9990		141,462			151,004			
Other acute ischemic heart diseases (I24)	4,046	4,092	0.9888	-,	3,932		-,				
Other forms of chronic ischemic heart disease (I20,I25)	266,854	269,291	0.9910		280,031	0.9963		291,118			
Atherosclerotic cardiovascular disease, so described (I25.0)	57,639	59,051	0.9761	59,734	61,030	0.9788	61,864	62,799	0.98		
All other forms of chronic ischemic heart disease	200 045	040.040	0.0054	040.054	040.004	4 0040	007.040	000 040	0.00		
(I20,I25.1-I25.9)	209,215	210,240	0.9951	219,254	219,001	1.0012		228,319			
Other heart diseases (I26-I51)	175,413 1,206	172,748 1,225	1.0154 0.9845		170,248 1,216		170,099 1,203	170,585 1,209			
Acute and subacute endocarditis (I33) Diseases of pericardium and acute myocarditis (I30-I31,I40)	843	867	0.9645	,	816		,	864			
Heart failure (I50)	57,235	56,565	1.0118		60,337	0.9996		58,933			
All other forms of heart disease (I26-I28,I34-I38,I42-I49,I51)	116,129	114,091	1.0179		107,879		109,059	109,579			
Essential hypertension and hypertensive renal disease (I10,I12,I15)	23,769	23,965	0.9918		23,855			24,902			
Cerebrovascular diseases (I60-I69)	133,990	135,952	0.9856		137,119		143,497	143,579			
Atherosclerosis (I70)	8,223	8,232	0.9989		8,652			11,841			
Other diseases of circulatory system (I71-I78)	21,872	21,940	0.9969		22,484			23,617			
Aortic aneurysm and dissection (I71)	12,887	12,986	0.9924	13,178	13,238	0.9955	13,811	13,843	0.99		
Other diseases of arteries, arterioles and capillaries (I72-I78)	8,985	8,954	1.0035	9,258	9,246	1.0013	9,783	9,774	1.00		
Other disorders of circulatory system (I80-I99)	3,981	4,101	0.9707	3,941	3,995	0.9865	4,777	4,813	0.99		
nfluenza and pneumonia (J09-J18) ¹	52,847	52,717	1.0025	56,247	56,326	0.9986	62,804	63,001	0.99		
Influenza (J09-J11) ¹	457	411	1.1119	860	849	1.0130	1,806	1,812	0.99		
Pneumonia (J12-J18)	52,389	52,306	1.0016	55,387	55,477	0.9984	60,998	61,189	0.99		
Other acute lower respiratory infections (J20-J22,U04) ²	268	255	1.0510	289	297	0.9731	403	404	0.99		
Acute bronchitis and bronchiolitis (J20-J21)	225	213	1.0563	203	214	0.9486	281	283	0.99		
Unspecified acute lower respiratory infection (J22,U04) 2,3	43	42	1.0238	86	83	1.0361	121	121			
Chronic lower respiratory diseases (J40-J47)	129,311	127,924	1.0108		124,583			130,933			
Bronchitis, chronic and unspecified (J40-J42)	704	667	1.0555		740			866			
Emphysema (J43)	12,963	12,790	1.0135		12,551	1.0015		14,002			
Asthma (J45-J46)	3,355	3,447	0.9733		3,613			3,884			
Other chronic lower respiratory diseases (J44,J47)	112,289	111,020	1.0114	107,741	107,679	1.0006	112,259	112,181	1.0		

[For explanation of asterisk preceding cause-of-death codes, see "Technical Notes"]									
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminar to final 2005
Pneumoconioses and chemical effects (J60-J66,J68)	907	915	0.9913		924	0.9989		1,007	
Pneumonitis due to solids and liquids (J69)	17,302	16,988	1.0185		16,887	1.0044		17,279	
Other diseases of respiratory system (J00-J06, J30-J39, J67, J70-J98)	28,773	28,508	1.0093		27,644			27,056	
Peptic ulcer (K25-K28)	3,000	3,045	0.9852	-	3,323			3,478	
Diseases of appendix (K35-K38)	413	426	0.9695		424			439	
Hernia (K40-K46)	1,663	1,698	0.9794		1,744			1,639	
Chronic liver disease and cirrhosis (K70,K73-K74)	28,504	29,165	0.9773		27,555			27,530	
Alcoholic liver disease (K70)	13,891	14,406	0.9643		13,050			12,928	
Other chronic liver disease and cirrhosis (K73-K74)	14,613	14,759	0.9901	14,374	14,505			14,602	
Cholelithiasis and other disorders of gallbladder (K80-K82)	3,178	3,237	0.9818	-, -	3,114		-,	3,072	
Nephritis, nephrotic syndrome and nephrosis (N00-N07,N17-N19,N25-N27) Acute and rapidly progressive nephritic and nephrotic syndrome (N00-N01,N04)	46,095 191	46,448 206	0.9924 0.9272	,	45,344 138			43,901 137	1.000
Chronic glomerulonephritis, nephrosis and nephropathy not specified as acute or chronic, and renal sclerosis unspecified (N02-N03,N05-N07,N26)	2,821	2,958	0.9537	1,365	1,841	0.7414	588	867	0.678
Renal failure (N17-N19)	43,064	43,263	0.9954	43,270	43,344	0.9983	42,925	42,868	1.001
Other disorders of kidney (N25,N27)	19	21	0.9048	20	21	0.9524	29	29	1.000
Infections of kidney (N10-N12,N13.6,N15.1)	612	628	0.9745	661	673	0.9822	767	767	1.000
Hyperplasia of prostate (N40)	498	491	1.0143	518	514	1.0078	527	525	1.003
Inflammatory diseases of female pelvic organs (N70-N76)	100	116	0.8621	113	112	1.0089	120	120	1.000
Pregnancy, childbirth and the puerperium (O00-099)	762	769	0.9909	787	760	1.0355	678	760	0.892
Pregnancy with abortive outcome (O00-O07)	28	31	0.9032	21	26	0.8077	32	33	0.969
Other complications of pregnancy, childbirth and the puerperium (O10-O99)	734	738	0.9946	765	734	1.0422	646	727	0.888
Certain conditions originating in the perinatal period (P00-P96)	14,293	14,599	0.9790	14,384	14,442	0.9960	14,539	14,549	0.999
Congenital malformations, deformations and chromosomal abnormalities									
(Q00-Q99)	10,277	10,421	0.9862	10,434	10,489	0.9948	10,349	10,410	0.994
Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)	49,960	33,500	1.4913	40,759	31,725	1.2848	40,962	31,999	1.280
All other diseases (Residual)	237,037	238,192	0.9952	236,614	237,421	0.9966	217,020	217,632	0.997
Accidents (unintentional injuries) (V01-X59,Y85-Y86)	117,075	123,706	0.9464	117,748	121,599	0.9683	114,876	117,809	0.975
Transport accidents (V01-V99,Y85)	45,832	46,844	0.9784	47,601	48,412	0.9832	48,140	48,441	0.993
Motor vehicle accidents (V02-V04,V09.0,V09.2,V12-V14,V19.0-V19.2, V19.4-V19.6,V20-V79,V80.3-V80.5,V81.0-V81.1,V82.0-V82.1, V83-V86,V87.0-V87.8,V88.0-V88.8,V89.0,V89.2)	43,098	43,945	0.9807	44,572	45,316	0.9836	45,053	45,343	0.993
Other land transport accidents (V01,V05-V06,V09.1,V09.3-V09.9, V10-V11,V15-V18,V19.3,V19.8-V19.9,V80.0-V80.2,V80.6-V80.9, V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,V89.1,V89.3,V89.9)	1,017	1,083	0.9391	1,177	1,181	0.9966	1,251	1,241	1.008
Water, air and space, and other and unspecified transport accidents and their sequelae (V90-V99,Y85)	1,716	1,816	0.9449		1,915		1,837	1,857	0.989
Nontransport accidents (W00-X59,Y86)	71,244	76,862	0.9269	,	73,187	0.9585		69,368	
Falls (W00-W19)	22,736	22,631	1.0046		20,823			19,656	
Accidental discharge of firearms (W32-W34)	721	613			642			789	
Accidental drowning and submersion (W65-W74)	3,237	3,443	0.9402		3,579			3,582	
Accidental exposure to smoke, fire and flames (X00-X09)	3,276	3,286	0.9970		3,109			3,197	
Accidental exposure to shoke, inc and names (x60 x65) Accidental poisoning and exposure to noxious substances (X40-X49)	24,313	29,846	0.8146		27,531	0.8972	-	23,618	
Other and unspecified nontransport accidents and their sequelae (W20-W31,W35-W64,W75-W99,X10-X39,X50-X59,Y86)	16,961	17,043			17,503			18,526	

[For explanation of asterisk preceding cause-of-death codes, see "Technical Notes"]									
processing data or addition processing datase or additionally data.									
Cause of death (Based on the <i>International Classification of Diseases</i> , Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminary to final 2005
Intentional self-harm (suicide) (*U03,X60-X84,Y87.0)	33,185	34,598	0.9592	32.185	33,300	0.9665	31.769	32.637	0.973
Intentional self-harm (suicide) by discharge of firearms (X72-X74)	17,348	17,352	0.9998	16,650	16,883	0.9862	- ,	17,002	
Intentional self-harm (suicide) by other and unspecified means and	,	,		,	,		,,,,,,	,	
their sequelae (*U03,X60-X71,X75-X84,Y87.0)	15,837	17,246	0.9183	15,535	16,417	0.9463	14,838	15,635	0.949
Assault (homicide) (*U01-*U02,X85-Y09,Y87.1)	17,520	18,361	0.9542	18,029	18,573	0.9707	17,694	18,124	0.976
Assault (homicide) by discharge of firearms (*U01.4,X93-X95)	12,129	12,632	0.9602	12,509	12,791	0.9780	12,121	12,352	0.981
Assault (homicide) by other and unspecified means and their sequelae									
(*U01.0-*U01.3,*U01.5-*U01.9,*U02,X85-X92,X96-Y09,Y87.1)	5,391	5,729	0.9410	5,520	5,782	0.9547	5,573	5,772	0.965
Legal intervention (Y35,Y89.0)	371	412	0.9005	411	434	0.9470	377	414	0.910
Events of undetermined intent (Y10-Y34, Y87.2, Y89.9)	4,888	5,381	0.9084	4,706	5,131	0.9172	4,423	4,742	0.932
Discharge of firearms, undetermined intent (Y22-Y24)	256	276	0.9275	214	220	0.9727	215	221	0.972
Other and unspecified events of undetermined intent and their sequelae (Y10-Y21,Y25-Y34,Y87.2,Y89.9)	4,632	5,105	0.9073	4,492	4,911	0.9147	4,209	4,521	0.9310
Operations of war and their sequelae (Y36,Y89.1)	19	21	0.9048	30	28	1.0714	27	27	1.000
Complications of medical and surgical care (Y40-Y84,Y88)	2,566	2,597	0.9881	2,492	2,521	0.9885	2,630	2,653	0.991
- Quantity zero.									
Category not applicable.									
¹ New ICD-10 code J09 (Influenza due to identified avian influenza virus) was added to the	category in 20	07.							
New ICD-10 code U04 (Severe acute respiratory syndrome [SARS]) was added to the ca	ategory in 2007.								

SOURCE: Preliminary and final data from CDC/NCHS, National Vital Statistics System.

Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminary to final 2005
All causes	29,241	29,138	1.0035	28,609	28,527	1.0029	28,534	28,440	1.003
Certain infectious and parasitic diseases (A00-B99)	484	482	1.0041	500	479	1.0438	528	530	0.996
Certain intestinal infectious diseases (A00-A08)	20	13	1.5385		16	0.9375		9	
Diarrhea and gastroenteritis of infectious origin (A09)	-	-		2		2.0000			
Tuberculosis (A16-A19)	2	2	1.0000		-		2		
Tetanus (A33,A35)		-		-	-		-	-	
Diphtheria (A36)	-	-		-	-		-	-	
Whooping cough (A37)	8	8	1.0000	8	8	1.0000	28	28	1.000
Meningococcal infection (A39)	9	11	0.8182		11	0.9091	17	17	
Septicemia (A40-A41)	271	283	0.9576		269	1.0892	301	302	0.996
Congenital syphilis (A50)	4	5	0.8000	-	-		-	-	
Gonococcal infection (A54)	-	-		-	-		-	-	
Viral diseases (A80-B34)	112	115	0.9739	116	120	0.9667	113	119	
Acute poliomyelitis (A80)	-	-		-	-		-	-	
Varicella (chickenpox) (B01)	-	-		-	-		-	-	
Measles (B05)	7	-	1 1000	7	7	1 0000	2	2	1 000
Human immunodeficiency virus (HIV) disease (B20-B24)	1	5	1.4000	- 1	- 1	1.0000			
Mumps (B26) Other and unapposition viral dispesses	-	-		-	-		-	-	
Other and unspecified viral diseases (A81-B00,B02-B04,B06-B19,B25,B27-B34)	105	110	0.9545	109	113	0.9646	111	117	0.948
Candidiasis (B37)	15	13	1.1538		15	1.0000		20	
Malaria (B50-B54)	- 10	-	1.1000		-	1.0000		- 20	
Pneumocystosis (B59)	1	1	1.0000		1		2	2	
All other and unspecified infectious and parasitic diseases A20-A32,			1.0000						1.000
A38,A42-A49,A51-A53,A55-A79,B35-B36,B38-B49,B55-B58,B60-B99)	42	31	1.3548	38	38	1.0000	34	30	1.133
Neoplasms (C00-D48)	149	131	1.1374		141	0.9858		134	
Malignant neoplasms (C00-C97)	92	72	1.2778		76	1.0132		75	
Hodgkin's disease and non-Hodgkin's lymphomas (C81-C85)	6	2	3.0000		1	1.0000		1	
Leukemia (C91-C95)	20	21	0.9524	31	31	1.0000	22	22	1.000
Other and unspecified malignant neoplasms									
(C00-C80,C88-C90,C96-C97)	66	49	1.3469	45	44	1.0227	54	52	1.038
In situ neoplasms, benign neoplasms and neoplasms of uncertain or									
unknown behavior (D00-D48)	57	59	0.9661	62	65	0.9538	63	59	1.067
Diseases of the blood and blood-forming organs and certain disorders									
involving the immune mechanism (D50-D89)	108	116	0.9310		102	1.0196		94	
Anemias (D50-D64)	16	17	0.9412	10	11	0.9091	19	19	1.000
Hemorrhagic conditions and other diseases of blood and blood-forming									
organs (D65-D76)	72	77	0.9351	63	62	1.0161	60	60	
Certain disorders involving the immune mechanism (D80-D89)	20	22	0.9091	31	29	1.0690		15	
Endocrine, nutritional and metabolic diseases (E00-E88) Short stature, not elsewhere classified (E34.3)	255 3	252 5	1.0119 0.6000		207	0.9662 0.7273		226	
Nutritional deficiencies (E40-E64)	4	7	0.5714		9	0.7273			
Cystic fibrosis (E84)	11	11	1.0000		11	0.9091	5		
Volume depletion, disorders of fluid, electrolyte and acid-base balance	- ''	- ''	1.0000	10		0.3031	J	J	1.000
(E86-E87)	62	60	1.0333	56	53	1.0566	65	63	1.031
All other endocrine, nutritional and metabolic diseases	02	00	1.0000	30	- 33	1.0000	00	0.0	1.001
(E00-E32,E34.0-E34.2,E34.4-E34.9,E65-E83,E85,E88)	175	169	1.0355	118	123	0.9593	139	145	0.958
Diseases of the nervous system (G00-G98)	424	413	1.0266		373	0.9678			
Meningitis (G00,G03)	88	82	1.0732		61	0.9344		57	
Infantile spinal muscular atrophy, type I (Werdnig-Hoffman) (G12.0)	15	13	1.1538	9	8	1.1250	15	15	1.000
Infantile cerebral palsy (G80)	11	11	1.0000						
Anoxic brain damage, not elsewhere classified (G93.1)	53	64	0.8281	55	60	0.9167	40	42	0.952
Other diseases of nervous system (G04,G06-G11,G12.1-G12.9,G20-									
G72,G81-G92,G93.0,G93.2-G93.9,G95-G98)	257	243			237	0.9789		232	
Diseases of the ear and mastoid process (H60-H93)	3	3			3			7	
Diseases of the circulatory system (I00-I99)	612	624	0.9808	539	543	0.9926	523	529	0.988
Pulmonary heart disease and diseases of pulmonary circulation		100	0.0000			4 0000			4.000
(126-128)	96	100	0.9600		81	1.0000			
Pericarditis, endocarditis and myocarditis (I30,I33,I40)	17	21	0.8095						
Cardionyopathy (I42)	117	120	0.9750		115	0.9478			
Cardiac arrest (I46) Cerebrovascular diseases (I60-I69)	34 136	29 132	1.1724 1.0303		15 142	0.9333 1.0211			

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Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminary to final 2005
Tenar Nevision, Occord Edition, 2004)									
All other diseases of circulatory system									
(100-125,131,134-138,144-145,147-151,170-199)	212	222	0.9550		181	1.0000		186	
Diseases of the respiratory system (J00-J98,U04) ¹	641	640	1.0016		692				
Acute upper respiratory infections (J00-J06)	15	14	1.0714		11	1.0000			
Influenza and pneumonia (J09-J18) ²	218	222	0.9820		263				
Influenza (J09-J11) ²	9	13	0.6923		18				
Pneumonia (J12-J18)	209	209	1.0000		245				
Acute bronchitis and acute bronchiolitis (J20-J21)	44 23	45	0.9778		52				
Bronchitis, chronic and unspecified (J40-J42) Asthma (J45-J46)	5	24 4	0.9583 1.2500		19 6				
Pneumonitis due to solids and liquids (J69)	11	10	1.1000		11				
Other and unspecified diseases of respiratory system		10	1.1000	J		0.0102			1.000
(J22,J30-J39,J43-J44,J47-J68,J70-J98,U04) ¹	324	321	1.0093	311	330	0.9424	294	298	0.986
Diseases of the digestive system (K00-K92)	650	677	0.9601	588	582				
Gastritis, duodenitis, and noninfective enteritis and colitis	000	0	0.0001	000	002		000	020	
(K29,K50-K55)	394	413	0.9540	326	323	1.0093	344	341	1.008
Hernia of abdominal cavity and intestinal obstruction without hemia									
(K40-K46,K56)	68	68	1.0000	70	67	1.0448	76	77	0.987
All other and unspecified diseases of digestive system									
(K00-K28,K30-K38,K57-K92)	189	196	0.9643	192	192	1.0000	209	208	1.004
Diseases of the genitourinary system (N00-N98)	169	169	1.0000	181	180	1.0056	181	180	1.005
Renal failure and other disorders of kidney (N17-N19,N25,N27)	137	138	0.9928	159	154	1.0325	152	151	1.006
Other and unspecified diseases of genitourinary system									
(N00-N15,N20-N23,N26,N28-N98)	32	31	1.0323		26			29	
Certain conditions originating in the perinatal period (P00-P96)	14,141	14,466	0.9775	14,223	14,321	0.9932	14,405	14,423	0.998
Newborn affected by maternal factors and by complications of									
pregnancy, labor and delivery (P00-P04)	3,280	3,274	1.0018		3,150	0.9921	3,230		
Newborn affected by maternal hypertensive disorders (P00.0)	96	89	1.0787	85	84	1.0119	89	88	1.011
Newborn affected by other maternal conditions which may be unrelated to present pregnancy (P00.1-P00.9)	99	91	1.0879	68	80	0.8500	69	70	0.985
Newborn affected by maternal complications of pregnancy (P01)	1,770	1,769	1.0079		1,683				
Newborn affected by incompetent cervix (P01.0)	505	488	1.0348		444				
Newborn affected by premature rupture of membranes (P01.1)	852	851	1.0012		824				
Newborn affected by multiple pregnancy (P01.5)	222	238	0.9328	213	214	0.9953	256	255	1.003
Newborn affected by other maternal complications of pregnancy									
(P01.2-P01.4,P01.6-P01.9)	191	192	0.9948	207	201	1.0299	189	188	1.005
Newborn affected by complications of placenta, cord and									
membranes (P02)	1,139	1,135	1.0035	1,123	1,140	0.9851	1,111	1,110	1.000
Newborn affected by complications involving placenta									
(P02.0-P02.3)	586	579	1.0121	561	563				
Newborn affected by complications involving cord (P02.4-P02.6)	46	43	1.0698		54				
Newborn affected by chorioamnionitis (P02.7)	503	511	0.9843	507	522	0.9713	471	471	1.000
Newborn affected by other and unspecified abnormalities of	4	2	2 0000			1 0000		4	1 000
membranes (P02.8-P02.9) Newborn affected by other complications of labor and delivery (P03)	120	127	2.0000 0.9449		102			134	
Newborn affected by other complications of labor and delivery (Fos)	120	121	0.5443	31	102	0.3310	131	104	0.311
breast milk (P04)	55	63	0.8730	58	61	0.9508	44	50	0.880
Disorders related to length of gestation and fetal malnutrition (P05-P08)	4,782	4,961	0.9639						
Slow fetal growth and fetal malnutrition (P05)	105	104	1.0096						
Disorders related to short gestation and low birth weight, not									
elsewhere classified (P07)	4,678	4,857	0.9631	4,841	4,841	1.0000	4,709	4,714	0.998
Extremely low birth weight or extreme immaturity (P07.0,P07.2)	3,573	3,706	0.9641	3,678	3,683	0.9986			
Other low birth weight or preterm (P07.1,P07.3)	1,104	1,151	0.9592	1,163	1,158	1.0043	1,064	1,069	
Disorders related to long gestation and high birth weight (P08)	-	-		-	-				
Birth trauma (P10-P15)	14	12	1.1667						
Intrauterine hypoxia and birth asphyxia (P20-P21)	349	356	0.9803						
Intrauterine hypoxia (P20)	108	106	1.0189		109				
Birth asphyxia (P21)	241	250	0.9640		235				
Respiratory distress of newborn (P22)	735	789	0.9316		825				
Other respiratory conditions originating in the perinatal period (P23-P28)	1,077 102	1,117 103	0.9642 0.9903		1,207 104				
Congenital pneumonia (P23)									

For explanation of asterisks preceding cause-of-death codes, see "Technical Notes"]			ı			I	I		
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminar to final 2005
Chronic requiretent disease originating in the peripetal period (D27)	225	243	0.9259	262	258	1.0155	271	270	1.003
Chronic respiratory disease originating in the perinatal period (P27) Atelectasis (P28.0-P28.1)	354				398			377	
All other respiratory conditions originating in the perinatal period	001	000	0.0012	000	000	0.0000	010	011	1.000
(P28.2-P28.9)	61	69	0.8841	69	69	1.0000	61	61	1.000
Infections specific to the perinatal period (P35-P39)	1,039		0.9830		998				
Bacterial sepsis of newborn (P36)	790				807				
Omphalitis of newborn with or without mild hemorrhage (P38)	5				-		6		
All other infections specific to the perinatal period (P35,P37,P39)	244				191	1.0105			
Hemorrhagic and hematological disorders of newborn (P50-P61)	723		1.0169		725				
Neonatal hemorrhage (P50-P52,P54)	614		1.0285		618				
Hemorrhagic disease of newborn (P53)	-	-	1.0200	1	1		-	-	
Hemolytic disease of newborn due to isoimmunization and other									
perinatal jaundice (P55-P59)	20	15	1.3333	10	13	0.7692	16	16	1.000
Hematological disorders (P60-P61)	89				93				
Syndrome of infant of a diabetic mother and neonatal diabetes mellitus	03	33	0.0330	33	30	1.0040	102	101	1.003
(P70.0-P70.2)	12	14	0.8571	16	12	1.3333	19	19	1.000
Necrotizing enterocolitis of newborn (P77)	529		0.9549		530				
Hydrops fetalis not due to hemolytic disease (P83.2)	195		1.1017		168				
Other perinatal conditions								.,,,	
(P29,P70.3-P76,P78-P81,P83.0-P83.1,P83.3-P96)	1,405	1.444	0.9730	1.385	1.400	0.9893	1.258	1.271	0.989
Congenital malformations, deformations and chromosomal abnormalities	,	,		,	,		,	,	
(Q00-Q99)	5,769	5,785	0.9972	5,827	5,819	1.0014	5,562	5,552	1.001
Anencephaly and similar malformations (Q00)	306		0.9533		336		313		
Congenital hydrocephalus (Q03)	92				88				
Spina bifida (Q05)	21	19			23				
Other congenital malformations of nervous system									
(Q01-Q02,Q04,Q06-Q07)	408	393	1.0382	389	390	0.9974	318	314	1.012
Congenital malformations of heart (Q20-Q24)	1,345				1,396		1,378		
Other congenital malformations of circulatory system (Q25-Q28)	256		1.0079	-	236			_	
Congenital malformations of respiratory system (Q30-Q34)	393				437				
Congenital malformations of digestive system (Q35-Q45)	129				108				
Congenital malformations of genitourinary system (Q50-Q64)	495				518			375	
Congenital malformations and deformations of musculoskeletal system,									
limbs and integument (Q65-Q85)	608	623	0.9759	627	619	1.0129	552	558	0.989
Down's syndrome (Q90)	78	82			97			123	
Edward's syndrome (Q91.0-Q91.3)	547				509				
Patau's syndrome (Q91.4-Q91.7)	302				322				
Other congenital malformations and deformations (Q10-Q18,Q86-Q89)	575				538				
Other chromosomal abnormalities, not elsewhere classified (Q92-Q99)	216				202				
Symptoms, signs and abnormal clinical and laboratory findings, not			.,,,,						. , , ,
elsewhere classified (R00-R99)	4,162	3,617	1.1507	3,749	3,462	1.0829	3,760	3,589	1.047
Sudden infant death syndrome (R95)	2,118				2,323			2,230	
Other symptoms, signs and abnormal clinical and laboratory findings,	=, / 10	_, .00	2.2301	_,0	_,,520	1.1201	_, .01	_,	2.31
not elsewhere classified (R00-R53,R55-R94,R96-R99)	2,044	1,164	1.7560	1,604	1,139	1.4083	1,653	1,359	1.216
All other diseases (Residual)	27				25			_	

or explanation of asterisks preceding cause-of-death codes, see "Technical Notes"]									
Cause of death (Based on the International Classification of Diseases, Tenth Revision, Second Edition, 2004)	Preliminary number of deaths 2007	Final number of deaths 2007	Ratio of preliminary to final 2007	Preliminary number of deaths 2006	Final number of deaths 2006	Ratio of preliminary to final 2006	Preliminary number of deaths 2005	Final number of deaths 2005	Ratio of preliminary to final 2005
xternal causes of mortality (*U01,V01-Y84)	1,646	1,747	0.9422	1,510	1,598	0.9449	1,463	1,512	0.9676
Accidents (unintentional injuries) (V01-X59)	1,238	1,285		1,119	1,147		1	1083	0.9871
Transport accidents (V01-V99)	136	127		136	142		148		1.0068
Motor vehicle accidents (V02-V04, V09.0, V09.2, V12-V14, V19.0-V19.2, V19.4-V19.6, V20-V79, V80.3-V80.5, V81.0-V81.1, V82.0-V82.1, V83-V86, V87.0-V87.8, V88.0-V88.8, V89.0, V89.2) Other and unspecified transport accidents (V01, V05-V06, V09.1, V09.3-V09.9, V10-V11, V15-V18, V19.3, V19.8-V19.9, V80.0-	133	124			140			146	1.0068
V80.2,V80.6-V80.9,V81.2-V81.9,V82.2-V82.9,V87.9,V88.9,									
V89.1,V89.3,V89.9,V90-V99)	4	3		2	2			1	1.0000
Falls (W00-W19)	33	24		22	23	0.9565		16	0.9375
Accidental discharge of firearms (W32-W34)	2	1		-	-		1		
Accidental drowning and submersion (W65-W74)	54	57		51	51	1.0000		64	1.0000
Accidental suffocation and strangulation in bed (W75)	628	669	0.9387	559	588	0.9507	504	514	0.9805
Other accidental suffocation and strangulation (W76-W77,W81-W84)	203	220	0.9227	193	193	1.0000	181	186	0.9731
Accidental inhalation and ingestion of food or other objects causing obstruction of respiratory tract (W78-W80)	62	70		64	62			48	0.9375
Accidents caused by exposure to smoke, fire and flames (X00-X09)	38	38	1.0000	27	27	1.0000	34	34	1.0000
Accidental poisoning and exposure to noxious substances (X40-X49)	16	19	0.8421	15	16	0.9375	20	20	1.0000
Other and unspecified accidents (W20-W31,W35-W64,W85-W99,X10-X39,X50-X59)	66	60	1.1000	51	45	1.1333	56	53	1.0566
Assault (homicide) (*U01,X85-Y09)	322	352	0.9148	292	336	0.8690	281	306	0.9183
Assault (homicide) by hanging, strangulation and suffocation (X91)	32	30	1.0667	23	34	0.6765	24	27	0.8889
Assault (homicide) by discharge of firearms (*U01.4,X93-X95)	13	15	0.8667	6	6	1.0000	7	6	1.1667
Neglect, abandonment and other maltreatment syndromes (Y06-Y07)	74	86	0.8605	67	75	0.8933	93	99	0.9394
Assault (homicide) by other and unspecified means (*U01.0-*U01.3, *U01.5-*U01.9,X95-X90,X92,X96-X99,Y00-Y05,Y08-Y09)	203	221	0.9186	195	221	0.8824	157	174	0.9023
Complications of medical and surgical care (Y40-Y84)	24	22		21	23			19	1.0526
Other external causes and their sequelae (Y10-Y36)	62	88	0.7045	78	92			104	0.9038
Quantity zero.									
. Category not applicable.									

SOURCE: Preliminary and final data from the CDC/NCHS, National Vital Statistics System.

[Relative standard errors are ex	cpressed as a perd	cent of the estimate	e]						
Estimated number	Percent of file completeness								
of deaths	100	95	90	80	70	60			
		R	elative standar	d error (percent)					
1	100.0	102.6	105.4	111.8	119.5	129.1			
5	44.7	45.9	47.1	50.0	53.5	57.7			
10	31.6	32.4	33.3	35.4	37.8	40.8			
20	22.4	22.9	23.6	25.0	26.7	28.9			
30	18.3	18.7	19.2	20.4	21.8	23.6			
40	15.8	16.2	16.7	17.7	18.9	20.4			
50	14.1	14.5	14.9	15.8	16.9	18.3			
60	12.9	13.2	13.6	14.4	15.4	16.7			
70	12.0	12.3	12.6	13.4	14.3	15.4			
80	11.2	11.5	11.8	12.5	13.4	14.4			
90	10.5	10.8	11.1	11.8	12.6	13.6			
100	10.0	10.3	10.5	11.2	12.0	12.9			
200	7.1	7.3	7.5	7.9	8.5	9.1			
300	5.8	5.9	6.1	6.5	6.9	7.5			
400	5.0	5.1	5.3	5.6	6.0	6.5			
500	4.5	4.6	4.7	5.0	5.3	5.8			
600	4.1	4.2	4.3	4.6	4.9	5.3			
700	3.8	3.9	4.0	4.2	4.5	4.9			
800	3.5	3.6	3.7	4.0	4.2	4.6			
900	3.3	3.4	3.5	3.7	4.0	4.3			
1,000	3.2	3.2	3.3	3.5	3.8	4.1			
2,000	2.2	2.3	2.4	2.5	2.7	2.9			
5,000	1.4	1.5	1.5	1.6	1.7	1.8			
10,000	1.0	1.0	1.1	1.1	1.2	1.3			
20,000	0.7	0.7	0.7	0.8	0.8	0.9			
50,000	0.4	0.5	0.5	0.5	0.5	0.6			
100,000	0.3	0.3	0.3	0.4	0.4	0.4			
200,000	0.2	0.2	0.2	0.2	0.3	0.3			
500,000	0.1	0.1	0.1	0.2	0.2	0.2			
1,000,000	0.1	0.1	0.1	0.1	0.1	0.1			
2,000,000	0.1	0.1	0.1	0.1	0.1	0.1			
4,000,000	0.1	0.1	0.1	0.1	0.1	0.1			